# International Abstract of Surgery

SUPPLEMENTARY TO

# Surgery, Gynecology and Obstetrics

#### **EDITORS**

ALLEN B KANAVEL, M D, Chicago LORD MOYNIHAN, K C M G, C B, Leeds PIERRE DUVAL, Paris

ABSTRACT EDITORS
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Volume LX January to June, 1935

PUBLISHED BY
THE SURGICAL PUBLISHING COMPANY OF CHICAGO
54 EAST ERIE STREET, CHICAGO
1935

CHYPLING BY THE SUBGICAL PUBLISHED COMPANY OF CHICAGO

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# INTERNATIONAL ABSTRACT OF SURGERY

JANUARY, 1935

# COLLECTIVE REVIEW

# GASTRODUODENAL ULCERATIVE DISEASE—A REVIEW OF THE 1933 LITERATURE

SAMUEL J FOGELSON, M D, MS, FAC.S From Department of Experimental Surgery, Northwestern University Medical School

To a major degree the extensive literature of 1933 on gastroduodenal ulcerative disease consists of an evaluation of results obtained during the last five or more years from particular surgical procedures. A number of surgeons compare their results with those obtained with various types of operations used in the past. Many valuable conclusions were arrived at from these critical analyses. The information gained from the comparisons with regard to the mortality and the morbidity, the degree of success or failure, may be coordinated so that one interested in the subject may obtain practical guidance in the surgical therapy of gastroduodenal ulceration.

This guidance is of special value when it is based on the experience of such men as von Eiselsberg (27), Lenche (66), von Haberer (46), Pribram (81), Finsterer (33), Konjetzny (62), Hurst (57), Babkin (5), Ivy (58), and other surgeons and investigators who placed the treatment of gastroduodenal ulceration upon a scientific basis and are now reviewing their results so that a more effective surgical therapeusis may be evolved

It is unfortunate that there should still persist marked differences of opinion not only as to the type of surgical intervention, but also as to the proper time for intervention. On the basis of this divergence of opinion the schools of therapy may be divided into the radical and the conservative. The radical school of surgical therapy is of Mid-European origin and includes most surgeons of Continental Europe. The conservative school is represented by English and American clinicians.

The problem of deciding when and what surgical intervention is indicated is difficult especially because both schools report excellent end-results Conservative clinicians condemn radical surgery as being associated with too great a mortality while radical clinicians claim that in cases treated by conservative surgery the incidence of failure and recurrence is excessive. It is possible that the difference in the results of the 2 schools may be explained by a difference in the types of lesions treated and in the social status of the patients, which latter has an influence on the postoperative dietary However, if the entire 1933 output of literature may be evaluated without a preformed opinion, it becomes apparent that, without as yet any marked uniformity of opinion, both schools are approaching in practice a mid-ground The radical surgeon is perhaps becoming less radical and the conservative surgeon has learned that in properly selected cases radical surgery is ultimately truly conservative

Von Haberer, one of the foremost exponents of radical surgery in the treatment of gastroduodenal ulcerative disease, has published 2 extremely valuable articles. In one (46) he describes his technique of gastric resection and in the other (44) he considers surgical therapy in general, emphasizing the goal to be achieved by resection and reporting his results.

The article on technique describes his method of procedure which was developed in 2,788 cases of gastric resection in which a Billroth I operation was done 1,799 times, the Billroth II operation

88x times, and the sleeve resection 128 times. Of the 1 709 cases in which the Billroth I operation was performed an end-to-end anastomosis be tween the stomach and duodenum was done in 1 572 and an end-to-side anastomosis in 207 I on Haberer considers the Billroth I method the operation of choice. He occasionally modifies it into a terminolateral anastomosis in which the end of the stomach is anastomosed to the para decendens duodeni. When the Billroth I resec tion does not seem feasible, he performs the Billsuch II resection. This is a terminolateral anastomous (the end of the stomach into the side of the feinnum) preferably antecolic, with the addition of Braun's entero-anastomosis. Occasionally the Billroth II operation is performed by the retrocolic route with the use of the fefanum.

After ligation of the blood vessels and separation of adhesions, the alicer II penetrallig is experited from the adjacent organ into which it has penetrated. The choodenum is which it has penetrated. The choodenum is neighted. Extreme care is taken to prevent largigated. Extreme care is taken to prevent into the pancreas. If the bed of the ulcer consists of the pancreas, the stomath or duodenum is dissected free with a custry and the exposed ulcer bed is identical. To be certain that an ulcer the pancreas of the bed in the pancreas is the bed in the pancreas of the bed in the pancreas of the bed in the pancreas of the pancreas of

Many other essential details of technique are described and emphasis is placed upon the harmoratic row of sources ligating the vessels in the gastrue submuccia. The storm in this Riffers I anastromotis should be at least: forger-treadths in diameter which in on Haberer's opinion is adquate. A somewhat similar technique is used in the Billicoth II operation

It is interesting to note the emphasis planed upon the type of anaethesa. Whenever possible, some form of fumbar or spinal anesthesia is used. This may be supplemented with block anesthesia is of the abdominal wall, bjanchnic anesthesia is supplemented by the intra enous injection of cripan.

In decreasing his results and the factors which gide him in the selection of the type of operation for each case, on Haberer says that, in his opinon, singleal therapy should be resorted to only in cases which do not respond to conservative meaures Jejimostomy as well as local econom of the other in a been abandoned. The best surgical threapy consists of a resection, preferably an extense one including the pylorus and the sortium. The aim of so extremive a resection is to eluminat the "so-called chemical phase of hydrochlore acid secretion which, in von Haberra oppinion, responsible for most recurrence. Von Haberra behress that resection of the prione giands is esential for removal of the stimulation of the acidproducing components of the residual gastric segment.

While the results obtained with the Billmost I and Billmost II reactions are similar to Billmost II reactions are similar to Billmost II reaction. In execution, in reparted as preferable to the Billmost II reaction. However, the Billmost III reaction, in which the end of the storacch is ansattomosed to the para decendings of the daudenman with billmost dosure of the daudenman is easier to perform than the Billmost in occuration.

With regard to extensive resections, were fixed to extensive resections, were fixed to the nilmante results depend not only upon the technique but this upon the section fixed to the position. He states that the postoperative mortality of various surgeous ranges from a to 15 per cent. The average postoperative mortality is 5 to 6 per cent and the average lockience of postoperative recurrency of lepund ulors of 6 to 9 per cent. Postoperative chronic dyspepsis, multimotion of the penceta, and the "peculiar accordancy gustric assendar" are more frequent after the Billroth II than after the Billroth I resection

In order to reduce the incidence of unsatisfac tory postoperative results the diet should be regulated carefully for at least a year after the operation. Extensive resection should not be at tempted when the anatomical conditions make it too difficult, as in ulcers of the posterior wall of the para decendens duodenl, involvement of the biliary ducts in the inflammatory process, or deep penetration into the pancreas. In the presence of such conditions a smaller palliative operation is advisable. Gastro-enterostomy may be considered, but you Haberer believes that after longer periods of observation the end-results of this procedure will be found less satisfactory as from 14 to so per cent of the patients subjected t it will still have symptoms due t an unbealed ulcer and from a to as per cent will develop a gustrojejunal uker He regards gustro-enterostomy as an opera tion of necessity rather than of choice.

Princise reclassion is mentioned only to be codemost because it does not remove the pyloric guards which incre and guartie secretion. You lishers believes that in cases of non-resectable doodenal size resection for exclusion of the is ston should include the pylorus and the antium. While such a resection give better results than gastro-cuterostomy, he prefers the latter procdure for non-resectable doodenal ulcars because a secondary operation for gastrojejunal ulcer is much easier after gastro-enterostomy than after resection for exclusion

He has employed resection for exclusion of a duodenal ulcer 12 times. Three of the patients developed a new peptic ulcer, and 3 have died since the operation, 1 from pneumonia, 1 from hæmorrhagic inflammation of the intestine, and 1 from a subphrenic abscess.

For profuse hæmorrhage, von Haberer advocates a blood transfusion followed by resection because palliative surgery does not assure against subsequent bleeding. If resection proves extremely difficult, he merely ligates the blood vessels leading to the lesion. This ligation may be followed later by a more extensive surgical procedure.

Perforation is, of course, operated on immediately Whenever possible a resection is performed. If immediate resection is contra-indicated because of the patient's condition, the perforation is closed and resection is delayed until later. The operation of choice is the Billroth I resection, but when this cannot be performed a Billroth II resection is done. In every case of perforation extensive resection should be the rule and an indirect attack on the ulcer-bearing area should be avoided if possible. However, while the surgical technique and the extent of the resection are important, they are not the sole factors determining the end-results of radical surgery.

In the cases of 57 patients operated on by von Haberer and studied later by Bremer and Held (16), 55 gastric resections of the Billroth I and Billroth II types were performed A satisfactory follow-up study was possible in 48 Of extreme interest was the absence of motor disturbances and of abnormal roentgenological signs as contrasted with the frequency of subjective complaints The gastric emptying time was radically reduced in all of the cases, but was more rapid after the Billroth II than after the Billroth I operation Of the 48 patients, 20 did not observe any diet and remained in good health, 14 adhered to a diet and had no subjective complaints, and 14, who were too poor to follow any type of diet, failed to gain weight and complained of symptoms In the cases of 3 unemployed patients living on an inadequate diet and indulging in tobacco and alcoholic drinks the symptoms ceased after dietetic management Therefore, of the total number of patients, 77 per cent became symptom-free

It is thus apparent that even after an adequately radical surgical procedure the results are best when a protracted postoperative medical regime is followed

Finsterer (33), in a report on over 2,000 cases in which gastric resection was performed, describes his technique in detail and reviews his results His mortality in 1,658 gastric resections was 5 per cent Of the gastric lesions, 95 8 per cent were healed and 4 1 per cent were improved Of the duodenal ulcers, 94 6 per cent were healed, 10 per cent improved, and 33 per cent unimproved Of the gastrojejunal ulcers, 75 6 per cent were healed, 7 1 per cent improved, and 16 3 per cent unimproved Certainly such excellent endresults should be the objective of every surgeon in the treatment of gastroduodenal ulcerative disease However, it is interesting to note that Finsterer does not condemn resection for exclusion in cases of non-resectable duodenal ulcer, a fact indicating a trend toward greater conservatism at least as regards this type of lesion

Finsterer is of the opinion that in cases of non-resectable duodenal ulcer rapid and complete healing of the lesion will take place after an adequate resection for exclusion provided retrograde filling of the duodenal stump does not occur. He prevents retrograde filling of the duodenal stump by a Hofmeister-Finsterer anastomosis. However, it is important to make the resection so extensive that only the cardiac third of the stomach remains. A Braun entero-anastomosis is unnecessary as remaining pyloric glands do no harm.

From his experience Finsterer has come to the conclusion that although resection of the antrum has a mortality of 13 8 per cent whereas the mortality of resection with preservation of the pylorus is only 3 1 per cent, resection for exclusion is justified as it is followed by permanent healing in 91 3 per cent of the cases. In his opinion the endresults depend, not upon the resection of the antrum, but upon the extent of the gastric resection. The pylorus should be resected only when the duodenal stump can be properly closed.

Enderlen and Zukschwerdt (30) recognize indications and use a technique similar to the indications recognized and the technique employed by von Haberer They likewise condemn jejunostomy, stating that it is followed in most cases by new ulceration They state that gastro-enterostomy is indicated only for elderly patients, particularly women Conservative methods do not give permanent healing Pylonic exclusion without resection is to be condemned as it has a higher incidence of postoperative recurrence than even gastro-enterostomy which, according to their statistics, is followed by a marginal ulcer in 50 per cent of cases The surgeon has a choice only between a Billroth I and a Billroth II operation Enough of the antrum and the fundus should be

removed so that only a third of the normal stom ach remains.

As most of Enderlen's and Zukachwerdt s patients in the Heidelberg Clinic had a non-resect able nicer of the doodenum, it was necessary as a rule to choose between gustro-enterestomy and a resection for exclusion. An article by Zuk schwerdt and Eck (103) reports the results of 107 resections for exclusion and 71 gastro-enterostomics performed during the last twelve years. The mortality of gastro-enterostomy was 9 8 per cent and the mortality of resection for exclusion 4-7 per cent. One of the patients treated by gastro-enterestomy subsequently died of perforation and another died of hemorrhage. Only to per cent of the patients subjected to gastroenterestomy were considered cured, whereas 85.5 per cent of those subjected to a resection for exclusion were restored to health. Of those treated by gustro-enterestomy, 413 per cent had post operative symptoms, whereas of those treated by resection for exclusion, only 3 per cent had post operative complaints. These results have definitely convinced the Heidelberg surreous that resection including the gastric motor" antrum is the operation of choice.

It is interesting to note that these surgeons find that resection does not control all of the sympturns. The persistence of symptoms is attributed to a residual gustritus. However the latter must not be unduly emphasized since psychic factors play an important part in the causation of symptoms in cases of older a fact suggesting that it

might be advisable to refer neurotic patients to a

psychiatrist after adequate surgery The report of the you Eiselsberg Chuic (at) on s 766 resections performed between 1901 and 1930 should prove of interest to every surreon. The methods used are in general almilar to those of you Haberer and Functerer but the details of various steps ment consideration. The type of local ansesthesis is described. The position of the common duct a carefully determined to award its insury In the description of the operation the authors review in detail the ligation of the important ar teries, the preparation of the stomach and duodeaum for resoction, the closure of the directenal stump the selection of the opening in the mesocolon, the picking up of the first jejunal loop, the execution of the anastomora, the steps required to prevent leakage at the angle between the gastric stump and the jegunum, and the closure of the opening in the mesocolos. All are considered in a very thorough manner making this publication valuable not only to the novice but also to the experienced surreon

The concise report of Emerson and Cairer (so) on 1,400 consecutive resections in Verebeley Clinic, Budapest, is important because emphasis is placed upon the use of a sening clamp after ligation of the blood vessels, incision between a rows of metal sutures to prevent escape of the gastric contents, an anastomous between the stomach and feiumum in which the lower corner of the stomach is resected, and the introduction of the anastomotic sutures below and through the mesocolors. Resection of the lower stomach corner has been done by \ erebeley since 1923 and is credited for the reduction in the mortality in all cases of

gustric resection from \$.5 to 4.5 per cent. Of the patients followed up good results were obtained in 1,054 (St.4 per cent) fair results in 308 (16 6 per cent) and poor results in 48 (s per cent) After palifative operations such as excision with gastro-enterostomy good results were obtained in 49 per cent, fair results in 33 per cent, and poor results in 18 per cent. The conclusion drawn from these results over a pine-year period is that gastric resection or radical surgery per formed with the technique described have been found to be more estimactory both in regard to mortality and permanency than are the results of

any of the other methods of treatment. This Continental preference for resection has to a certain extent been followed by the Scandina vien countries. Pallin (75) says, In S eden the development has on the whole followed that of Germany Thus, during the last decade there has been a decided shift from gustro-enterestomy to resection. At the present time resection would seem to be the operation of choice for most sur seons at the harer hospitals, yet by no means all of them.

In a brief review of the American and German literature, Pallin quotes Walters and Balfour as stating that the peptic ulcers seen in European Clinics differ from those seen in the United States in that they are frequently more extensive, more often multiple, and associated with a greater degree of gustritis, this fact explaining the difference in the attitude of American and European surgeotis.

Pallin cites the mortality of von Haberer and Finaterer which is 48 per cent, but quotes Gulcke as stating that the average mortality must be twice as great. He says that Finsterer's gastric resection for exclusion has definite men't and has gained recognition by French and German aur geom although it is not much med in England.

During the last ten years Pallin has operated on og patients with duodenal ulcer and has reexamined 48 of them from two to eight years after the operation Of the latter, 25 were treated by radical resection, 16 by palliative resection for exradical resection, to by pamative resection for the clusion (retention of the Pylorus), and 17 by gastro-enterostomy The results of palliative resection in which the pylorus was preserved were in no respect inferior to those obtained by the more radical resection, a fact confirming the opinion of Finsterer and refuting that of you Haberer Of the 25 Patients treated by radical resection, 13 were completely symptom-free, 7 were greatly benefited, 2 were slightly benefited, and 3 had poor results Of the 16 patients subjected to a palliative resection, 10 were rendered completely symptom-free, 5 were greatly benefited, and I symptom-free, 5 Welle gleany bencheu, and 1 had a poor result Of the 17 Patients treated by gastro-enterostomy, 10 were rendered completely gastro-enterostomy, 10 were rendered compositions greatly benefited, I was symptom-free, 5 were greatly benefited. There slightly benefited, and I had a poor result were 9 postoperative deaths 3 secondary to radical resection, 2 following the palliative resec-

Pallin discusses especially the postoperative tion, and 4 after gastro-enterostomy precipitate emptying of the stomach to which he attributes many of the unsatisfactory postoperative results following gastro-enterostomy and the Billroth II operation He emphasizes the impossibility of determining why "rush" emptying occurs in one case and not in another From his experience in the 109 cases reviewed, he concludes as follows that the Dillegth Topography as for the that the Dillegth Topography. tion that the Billroth I operation, as far as 'rush emptying, is concerned, is superior to other methods. On this ground, the Billroth I operation provides on of the adventure of radical reconstants. tion proves one of the advantages of radical resection over palliative resection. But in comparison with gastro-enterostomy, which is best reserved for more elderly people with pyloric stenosis, I am entirely in agreement with Finsterer's opinion regarding the decided preference for the palliative resection

Germanic teachings have in general dominated the French surgeons in the surgery of gastroduodenal ulceration Leriche (66) is guided by Finsterer's teachings in his surgical therapy objective in the treatment of gastroduodenal ulcerative disease is the removal of enough of the acid-secreting portion of the stomach to produce achlorhydria In 225 cases operated upon by him in the period from 1925 to 1932, he performed 129 gastro-enterostomies and 96 resections Of the 96 resections, 14 were performed for duodenal ulcer Leriche reserves gastro-enterostomy for small duodenal lesions which lead to pyloric stenosis. He states that resection is the operation of choice for lesions which have perforated into adjacent organs, ulcers of the lesser curvature, ulcers high

in the stomach, and calloused large gastric or duodenal ulcers. The only argument against extensive resection is its surgical mortality. The end-results of extensive resection are far superior to those obtained with gastro-enterostomy. In the gastro-enterostomy are to those obtained with gastro-enterostomy was done to those obtained with gastro-enterostom was done there were 14 deaths, and in 13 of death to have there were 14 deaths, and in 13 of death to have there were showed the cause of death to have there were failure of the surgical technique. Pyloricases, autopsy showed the cause of death to have there were failure of the surgical technique.

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Of interest to surgeons who stress the acid factor in gastro-intestinal ulcerative disease will be the report of Kemal (59), who, in 314 surgically treated patients, found hypo-acidity instead of hyper-acidity Kemal is of the opinion that, at least in Turkey, acidity is of minor importance He never observed malignant changes, perforation, or fatal hæmorrhage after a gastro-enteros-Marginal or postoperative peptic ulcer occurred in only 2 Cases, in both of which there was hypo-acidity Of Kemal's cases treated by gastro-enterostomy, the operation was followed by death in 6 per cent, permanent healing in 82 per cent, and improvement in 13 per cent. Of the cases in which resection was done for a large calloused ulcer and malignancy was suspected, the operation was followed by death in II 3 per cent In comparison with these Continental results, and permanent healing in 95 per cent.

In comparison with these continuous for the Gaither (42) reports on 100 cases collected by means of a questionnaire sent to 500 patients and evaluated by an internist who interrogated the patients personally in addition to studying them

physically and roentgenographically Of the cases in which gastro-enterostomy was performed, complete relief resulted in 80 per cent, whereas of the total number of cases representing the results of all types of operations, complete relief was obtained in 72 per cent, marked improvement in 10 per cent, and no improvement in a per cent. Gaither concludes that gastrojejunal ulceration, catastrophic hemorrhage, and perforation are rare after gastro-enterestomy The immediate mortality and the end-results of gastro-enterostomy and other conservative types of operation do not fastify the displacement of conservative surgery by subtotal gastrectomy. Although the time interval between surgical intervention and examination of the patient is not mentioned, it is note worthy that 70 per cent of the patients had been carefully following postoperative dietetic rootines.

Laboy (64) descusses the selection of the operative procedure for various gastric and deoderal lesions and comes to the conclusion that in the order of the best results, partial gostrectomy undoubtedly stands at the bead of the 3 general operative procedures, followed by pyloroplasty and gastro-enterostomy On the other hand, it must he admitted also that partial sentrectomy per formed by almost any surgeon will have the highest mortality rate of any of the gastric procedures for duodenal alters that pyloroplasty will have the lowest mortality rate and that gustroenterostomy will have the intermediate mortality rate, but in the long run will probably give the pogrest end-results. Labor therefore believes that the selection of operation for duodenal ulcers. particularly olders which are partly or entirely retropentopeal, should be reserved until the abdomen is opened and the lesson visualized

Labey state that the feet once are the interest and the state of the s

Among the numerous reports on perforated peptit ulor: Graves analysis of 4,400 cases or carrieg on the German Churca (43) is outstanding Graves stresses the danger of drawing erroseous conclusions from a sincy limited to mortality statistics alone. He states that simple closure of a

performed taken is the easiest and quickest operation and affords the best immediate prognosis, both in most German clinks it has mostly been per formed on patients in extremels oper condition and more radical surgery is reserved for those who have been fait to good risks. Therefore the mortality rate attending the simple operation may be very high, as in the series reported from Genves Clink, Frankfurt-am-Mism, in which it was 35 per cent, and in the entire collected German series, in which it was 25 per cent.

Jo the cellected German series of cases of perlorated close resection was done yts these with a mortably of 18 per cent. Graves concludes that mortably of 18 per cent. Graves concludes that the fow mortable is perfectly of percentage of patients in better condition and the greater case and skill with which guartic resection is done by German and Austrian surpross who have had great experience with that operation

Routine partial gastric resection for perforated peptic older in Central European patients who are good surgical risks as fustified because

- r Peptic ulcers are multiple in about 30 per cent of all patients who have a perforation.
- 2 Atrophic, hypertrophic or ulcerative guatritis is usually present in the ulcer bearing area of the stomach
- 3 The lesions present, particularly those in the duodenum cannot be judged by inspection and palpation alone
- 4 Gastrie resection is performed by most German and Austrian trained surgeons in from forty to seventy five minutes
- 5 The mortality rate in the cases of patients who are selected good risks is not over 5 per cent 6. Gastric resection is usually technically easier in cases of perforated older that in elective cases of pertor older.
- 7 The simpler procedures do not always cure the ulcer or allevate the gastritis and are fre quently followed by recurrences of peptic ulcer or the development of a marginal ulcer.

Shasan (92) reports on 323 cases of scatte perlocated disochant and gastine inter in which the mortality was 24 2 per cent, in contrast to the mortality was 24 2 per cent, in contrast to the mortality was 24 2 per cent, in case 370 cases in which resection was done In 185 (15 per cent) of Shawan a senies of cases, sample closure of the per fortition was done. The mortality was lowest in 36 cases treated by enclusion of the ulcerated area and closure. Closure pixin gastro-enteroatomy was done in 22 cases with a sightly higher mortality.

Comparison of these a groups is unteresting in that the more transcriptive measures failed to decrease the immediate mortality whereas it may be assumed that the more radical surgical technique will be followed by better end-results.

Rousselin (86) has made some interesting observations on gastroduodenal perforation He has noted that the mortality is lowest in perforation of the duodenum and is greater the higher the site of the perforation in the gastro-intestinal tract Of his series of cases, the mortality was 15 5 per cent in those of duodenal perforation, 51 5 per cent in those of perforation in the pylorus, and 71 4 per cent in those of perforation in the lesser curvature This variation in mortality may be secondary to the fact that the size of the perforation increases from the duodenum upward After discussing the usual factors of perforation, such as the time elapsing between the perforation and surgical intervention and the age and general condition of the patient, Rousselin states that he obtained a cure in 70 per cent of his cases, but that the best end-results were obtained in those in which there were no ulcer symptoms prior to the perforation

In contrast to the conclusions of Graves, Rousselin, and Shawan, are those drawn by Black of England (10) on the basis of 50 cases of perforated gastric and duodenal ulcer operated on in the period from 1927 to 1931 Black concludes that (1) the simpler the operation the better, (2) the methods and skill of the surgeon are not of great importance, and (3) the time elapsing between the perforation and operation is of chief importance. The last conclusion will be vigorously contested by many experienced Continental surgeons who believe it is not the time factor but the condition of the patient which should guide the surgeon

Scotson (89) reported on 181 cases of perforated peptic ulcer in which the mortality was 17 per cent He has confirmed Rousselin's observation that the mortality is greater the higher the site of the perforation in the gastro-intestinal tract. He believes it is explained by "the likelihood of serious hæmorrhage preceding perforation as well as the larger size of the perforation and greater amount of infectivity of the extravasated contents, and also the difficulty, in many cases, of making a satisfactory closure of the perforation in a large gastric ulcer" Of significance is the fact that none of his patients with duodenal ulcer who were treated by suture and gastro-enterostomy had any severe postoperative symptoms and in the patients who followed instructions regarding diet, hygiene, and the use of alkaline powders the end-results were as a general rule very satisfactory regardless of the type of surgery

Much of value to both the internist and the surgeon may be obtained from an article on hæmorrhage by Allen and Benedict (1) During the last twenty years 1,804 patients with duodenal ulcer were treated in the Massachusetts General Hospital. Of these, 628 either gave a history of gross bleeding or, while under observation, lost blood in amounts recognizable by macroscopic study Of these, 176 were classified as moderate bleeders. the blood loss not being sufficient to reduce the red blood cell count to 3,000,000 or the hæmoglobin to below 70 per cent Two hundred bled sufficiently to produce a marked secondary anæmia Of these, 62 bled gradually over a period of weeks and 138 had a hæmorrhage coming on with sufficient suddenness to produce prostration, shock, and marked anæmia. Therefore 22 per cent of the patients with duodenal ulcer complicated by hamorrhage could be classified in the acute massive hamorrhage class Twelve of these patients bled to death before operation could be performed, and 8 were operated on in a depleted state without success The mortality in this group was therefore 145 per cent In nearly every fatal case it was possible, either at autopsy or at operation, to demonstrate the erosion of a large artery The striking difference between cases of apparently the same severity on admission in which bleeding ceased spontaneously and those in which the bleeding continued to a fatal termination was the average age In the fatal group the average age was fifty-six and three-tenths years while in those with recovery it was forly-one and eight-tenths years. It has been more or less commonly believed that patients are more likely to recover after one attack of severe bleeding than after several attacks, but as in 65 per cent of the fatal cases reviewed death occurred during the first period of bleeding, it is evident that the number of hæmorrhages is not a reliable criterion of the prognosis

Of the 20 patients who died, 12 had not bled previously, 7 had bled only once before, and 1 died during the fifth attack of bleeding. There was little evidence that transfusion had had any relation to continued or marked bleeding. Five patients died of hamorrhage without transfusion. Of the patients who bled out several transfusions in a period of from one to five days, all died whether operated upon or not.

Blood was given the patient only on his failure to hold his own with a systolic blood pressure above 70 mm. Hg. To eliminate the danger of rapidly elevating the blood pressure, the blood should be given slowly in amounts of about 300 c.c.m. In many cases in which this treatment has been given there has been no further serious

bleeding. After the patient is safely over the INTERNATIONAL ABSTRACT OF SURGERY scale state of hemorrhage from the to around the control of the co

delign before the mediantes of the state of his hospital convalencence Operation should be considered and under

Openion Moral or Gamerica Am above patient in a large percentage of Case in which the patient in which the contract of materials of the contract of the contra formation to present one of the control of transmission of the control of the con rach a precedors condition, either his condition may be looked upon as hopeless or a heroic at imple may be made to save his life. In the so figal cases royles od by Allen and Benedict water

lass (see created by Audi and Orderia, "and and He supply were both ried. Allen and He supply were both ried. Allen and He supply as a second technique of prosection blue control of presides and embracion the permity for loss prepared to cape with here the necessity for some prepare to cape with some support of the logical measure.

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an one period prom 1911 to 1938 on taken to make to milited to the FOUTD Medical and State and advance of the Bulleon Breakly law Holme, and the Bulleon Bre ritions of the Bellevice Hospital by Hinten (4) In this group there were 9 cases of Peptile clear treated concernatively with a fatal outcome. The mortality in this group is attributely similar to the mortality reported by Benedict and Allen and the batter demonstrates the importance of definite preparation to cope with hamourhage in a logical faction while previously determined operative locinations are being followed

Robinstance (1 ) Imports 124 Cases of sorredy hereing elects in one-tail of which operator was performed. The total mortality was 14 Per cent performed. The town man taken was the performed the mortality of radical operation, 10 4 Per cent, and the mortality of conservative treatment, and has come if the patients operated on in expense are eliminated, the postoperative mortality is

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in the cases of patients with a key aker bistory To 11 of their crees to appey an exhibitation plan in the crees of harmon acros a real merit mines Exploint May done types made and characters only there that partio-culturations is of value only in case of chronic callonard Honoring prioric current and that pyloric excision is of no value. In their Case to style at extensive to an according of the stonach and duodenam was done the mortality was to ber cent

Tuer and Clavel (97) in a review of 73 cases, conclude that Finatone spacetics of milest inter working gives the best cod-results. They state that when core the alter is exposal and hemostate is obtained, the surgeon's natural focine too is to imit the surgery but such a routing practice gives insetting the same a monocon practice gives into inacciony resource for non-ceally are obtained by reserving followed by re-peated blood transforms. They emphasize the percent of investigating other ethological fac tors of hemorrhage such as circulatory steers and Estilits with enorious of the small blood vessels are in contradiation to case of hemorrhage of arterial origin, cases of hemorrhaps due to care arizing organ, casa or osmorrings one to circu-latory starts and gravitis with crosion of small blood reach are best treated by medical meas-

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cent of all patients with patrodroofend over tree disease bleed at some time during the bife Cycle of their leading that 32 Per cent of those who bleed have scale meany bemorthage that of the with meaning harmouthers, 15 per cent and be so executation of upon hospitalization that they will de whether the treatment is medical or surgical, that surgical intervention at the proper time will decrease this mortality below the mortality in a seminar group of deported patients treated medically that there are no tree criteria treates measure y one once an or one of the first which patients will stop become no security warms parents was any occurrence and the cod results will be best if the patients who fall to hold their own after transferror are operated upon carry by a definitely planned surgical require directed at this emergency

Although the surpost technique of the vactour procedure use sugar, unusque of patro indicate ukeration is standardized except for intentional modulations, the 1933 literature contains innovations appearant on AND minimum and management of the contains a second contains and contains and contains and contains a second contains a se

the description of a method of dealing with the proximal jejunal loop in the posterior Pólya anastomosis after partial gastrectomy (63), Lahey cited among the difficulties encountered in this operation (1) angulation of the intestinal loops, (2) difficulties in suturing the anastomotic stoma wall below the transverse mesocolon, (3) tension on the anastomosis when a short proximal jejunal loop is used, and (4) the danger of an obstruction if the gastrojejunal anastomosis recedes above the opening in the mesocolon with the formation of a double-barrelled loop of proximal and distal jejunum penetrating through the transverse meso-Many of these complications may of colon course be avoided by an anterior Pólya anastomosis, but this procedure also has disadvantages When, in the latter, the jejunal mesentery is so short that, on being brought up to a reasonable level over the transverse colon to reach the cut end of the stomach, it produces pressure upon the transverse colon, any colonic distention is associated with danger of obstruction Moreover, in order to obtain a jejunal loop which will reach over the transverse colon, a long loop must be used and the gastric contents are emptied into a relatively low segment of jejunum, which is not destrable

By simply incising the ligament of Treitz from its lowest insertion in the jejunum to its origin in the mesenteric root, it is possible to mobilize the proximal jejunum so that it may be anastomosed to the stomach through a slit made in the transverse mesocolon. Thus the entire proximal loop of jejunum is brought above the mesocolon and excluded from the greater general peritoneal cavity. When this procedure is followed, only one loop of bowel ultimately traverses the transverse mesocolon. It is not necessary to suture the stomach above the gastrojejunal anastomosis to the transverse mesocolon, and tension and angulation of either of the jejunal loops is readily avoided.

The solution of many of the problems of gastric resection by such a simple procedure as incision of the ligament of Treitz is at first difficult to visualize, but after the first trial the ease and practicality of this method become obvious

Back of England (6) has suggested a new technique for gastrojejunostomy. Several years ago he decided that easier access to the posterior wall of the stomach would be provided by exposure through an incision in the great omentum. He first makes an incision in the gastrocolic omentum parallel with the greater curvature which gives free access to the lesser sac and through which the whole posterior wall of the stomach can be thor-

oughly examined The transverse colon is then held up by the assistant and the second opening is made into the lesser sac through the transverse mesocolon. A coil from the upper part of the jejunum is brought up through the opening in the transverse mesocolon and the most proximal part that can be apposed to the stomach without strain or tension is clamped. The transverse colon is then returned to the abdominal cavity and the anastomosis made in the usual way except that it is done in the lesser peritoneal cavity. Finally, the edges of the opening in the transverse mesocolon are fixed to the jejunum by a few interrupted sutures and the opening in the gastrocolic omentum is sewed up

Back believes that this method has many advantages over the usual technique, in that the entire posterior wall of the stomach can be examined, traction on the stomach is avoided, and the transverse colon is returned to the abdominal cavity to prevent chilling. Since his adoption of the method both his immediate and his late results have been better

Konjetzny (62) reports further studies on antroduodenitis These are important because many Continental surgeons contend that radical resection is the only procedure capable of removing all of the lesions present in the ulcerated stomach. It is an unsettled question whether digestion or erosion occurs in a healthy gastric mucosa or only after an inflammatory process. Many patients who have no true ulcer give the classical ulcer history because of antroduodenitis When such patients are subjected to operative exploration, the surgeon must decide what surgical therapy, if any, is indicated Konjetzny believes that when the symptoms persist gastric resection is eventually indicated This is true particularly when the gastric mucosa shows a polypoid hyperplasia and when chronic gastritis has progressed to the point of organic pylonic stenosis Resection is indicated also when the differentiation between a benign pyloric hypertrophy resulting from gastritis and a fibrous carcinoma is difficult.

The studies by Aschner and Grossman (4) of 124 specimens of antrum and duodenum obtained by gastrectomy in New York suggest that at least in the Eastern United States the pathological changes of gastroduodenal ulcerative disease simulate closely those associated with gastroduodenal disease in Continental Europe Ulcers were never found in normal gastric or duodenal mucosa, their development being always preceded by a gastritis or a duodenitis Despite spontaneous healing of an ulcer, the underlying gastritis and duodenitis may persist and predispose to new ulcera-

tion. Aschner and Grossman observed also cases INTERNATIONAL ABSTRACT OF SURGERY of gastrile and doodenites with crostoca in which

THY COMMISSION WAS DOCKLIVE AND EXPORTED IN PORCE LINE Type (Emination and Degroys and Espacement Presided so fittle pathological for empression from the tibe and the control of the strates with such conditions have classical symp. come of theer and as a title develop a typical offer

Antroduced this type may be responsible for fallure after gatter-enteroriemy Publ (32 thous at crea in which traction was be-ON reports of their there was a marked hyperplastic necrons inflammation which

as not severe in the antrum but was present also in the drodenum. Henning (3) diamage chronic inflammatory

changes in the gratife mucous in a similar fashion. He limits surgery to cases of steroots, suspected cardinome, postoperative harmorrhage, and failure of medical treatment. Zukachwerdt and Zettel (104) do not question

the exhitence of gastrills in a large number of pations for whose gastric rescrition was indicated, terms for whom Season traction was included but limit that there are many persons with gastilly app pack too subjective shinkous are gistroup of Santille le maye nonferrous and and pastroscowally Zukachacrdi and Zettel and passioncoveracy consumerous and consumers in the histological findings in the stomach left after resection because in every one of the 66 cases reviewed by them they found a definite gastritts at the edge of the reacted specinens Roenlen examination disclosed hyper mens someone examination discovered hyper trophy of the gustric monose with accordance of the mocosal folds: the stopphic, fastened mocosaand the polypoid hyperplastic micross Tremty and the purpose appendix micros among some of the appendix cummed postoperatively should be appendix on remaining postoperatively as a site of the purpose o 18 of the 7 were symptom-free Emphasis is laid mon the parent origin of postoperative compaints and the importance of referring the imtients to a payethis trat, but the fact that 18 of the 77 symptom-free patients still aboved residual pathological changes rates the question whether patienteman comme faces are question were at sould not be supe to refer the patients to a basicinating in the gust blace and bostbook or

RESURE OF DEDICAL THERAPY OF GAFTRO-DODDER IT OFCERVING DREVER DE 1833 On the medical side an almost equally large number of methods of therapy are proposed Kodn (61) dwells on the similarity between peric after and the early lexions of thrombo angular obliterates He says, Despite the variation in conteriors the says, the final perform in perpuaker and thrombo-anglits obligates as permes in perme

another rather closely. As peptic ulcur repre-sents a disturbance in the blood supply in the imnectical and the property of the alter and the paint of popule alcer and the pains occurring in thrombo. spanita opticas as sie striguista spanjas in anomonomos se striguista spanjas se striguista se striguista spanjas se striguista that the treatment of repriculers should be based on the same beautiful as the treatment of end arteries and voins

In the treatment recommended by Kohn a solo-An Oce treatment recommensary by room a more thought of chemically pure sodium citrates some chievals and a harfest steam Absolved in distillated hon or chemically hore sources courses assume chloride, and a buffer agent dispotred in distilled gater is prompts to a paymogen-lost concentration a both is slightly alkaling and injected interes northy. The initial dose is merally from 35 to 30 and the control of the second of the Later the dose may be increased to 100 Con The solution is injected daily every other qu's or take a copta. By this neatment as at 20 hattents were apparently cared, 13 were benefited

patients were apparently execu, 13 were measured to an apparently of the provided to an apparently de-Sire and a a cro benefited only alightly Immunitation therapy is again advocated by Hufford (56) who used a green producing, Gram positive diplostropococcas obtained from repositive appearable CA 2 6 ballents treated with a stock their raction in addition to their and one

medication, all ordent fort of informed deserpercent to 71 and the after recurred to only 5.8 per cent) Of the 45 periods in whom the lock sere not completely eraclicated, the altern secured surply from one to three hears in \$ 12.8 per cent) Of 34 petients treated deteriorally without moculations, all evident loca of infection West removed in g and, to date the akers have were removed in a sum, in man was well as the second of these \$ 0.00 ft. the remaining 6 recurrence have developed in J (81 per cent) This confirms the teaching of J (or per cent) that for of infection on doubtedly play an important part in the forms coroccuty heav an important part in the training then end-results by needly eliminating every possible focus of infection in addition to performing the local operation on the gratro-microlinal tract the local operation on the grant-minimum uters.

During the last four years Trippe (pt) gave 8

patients with above 8 1 too southen of metaphen

Allow mark. ms dose of 4 c cm 3 times a day other med-

as a seen to 4 c can 3 tunes a cay y occurrences. cattled The pain was referred within an average of three days without any demonstrative (one or three maps without any or transmission of the control of the subjective symptoms there are counter or dence of objective improvement with complete dispression of the static and duodenal brions Trippe sittibutes the results to control of infection Anythe actionics are remain or control of our con-He makes no mention of kidney irritation by the metaphen, but is a mercurial product

In the Alvarez Lecture given before the American Gastro-Enterological Society, Hurst (57) emphasized the unity of gastric disorders A study of the anatomy and physiology of stomachs of healthy young adults of both seves showed that under perfectly normal conditions there is a considerable variation from the average. In 80 per cent of persons the variations occur within comparatively narrow limits and the anatomy and physiology of the stomach are so perfectly adinsted to the exigencies of ordinary life that these persons are likely to reach old age without ever suffering from any form of chronic gastric disorder Of the remaining 20 per cent of persons, one-half are born with a hypersthenic gastric constitution and the other half with a hyposthenic The hypersthenic group gastric constitution have a hyperchlorhydria often associated with a short, high, rapidly emptying stomach, and the hyposthenic group, a hypochlorhydria and a long, slowly emptying stomach Both constitutions are compatible with perfect health, but under unfavorable circumstances persons with a hypersthenic constitution are predisposed to gastric or duodenal ulceration and those with a hyposthenic constitution are predisposed to carcinoma of the stomach and Addison's anæmia

In hypersthenic persons with a constitutional hyperchlorhydria and rapid gastric emptying the stomach is empty for a much longer portion of the day or night than in the average individual Accordingly, there is much more opportunity for damage to the mucosa by such irritants as alcohol, tobacco, and drugs In addition, fractional Ewald meals in individuals of this type show not only hyperchlorhydria but also a decrease in mucus secretion Because of the reduction of the capacity of the stomach to secrete mucus, which is a characteristic of the hypersthenic constitution, the protection against damage which is afforded by the layer of mucus in the hyposthenic stomach is absent According to Hurst's theory, it seems reasonable to conclude that persons with deficient mucin secretion should be fed mucin in order to protect the gastroduodenal mucosa and restore as closely to normal as possible the relationship of the mucin content to the other components of gastric secretion

#### MUCIN THERAPY

The mucin therapy for gastroduodenal ulcerative disease devised by Fogelson has been the subject of as much controversy as most other treatments for that condition, but is reported mentorious even by many of its critics. Block and Rosenberg (11) say 'I' is noteworthy, neverthe-

less, that partial or complete symptomatic relief was achieved with mucin in 7 patients who failed to respond to other forms of therapy. Such results indicate that gastric mucin may have a place in the treatment of peptic ulcer, notwithstanding the shortcomings previously discussed as untoward symptoms, although prolonged observation under carefully controlled conditions is essential to the formulation of any definite conclusion. At the present writing, then, we should advocate its use in cases refractory to other forms of treatment and as a step toward the evasion of a surgical procedure."

Rivers and Vanzant (85), who have used mucin in more than 150 cases of peptic ulcer, report that about 50 per cent of their patients responded favorably when mucin was employed. They caution against the use of mucin in cases of peptic ulcer associated with disease of the urinary or biliary tracts because of the increase in the blood urea in such cases.

Many physiological reports have been published in 1933 which support Hurst's hypothesis and strengthen the position of gastric mucin in the treatment of gastroduodenal ulcerative disease

From investigations of the action of mucus in the automatic regulation of the acidity of the gastric contents, Bolton and Goodhart conclude that the only means possessed by the normal stomach to reduce the acidity of its contents is the secretion of mucus

Florey (38), in reporting his observations on the functions of mucus and the early stages of bacterial invasion of the intestinal mucosa states that by microscopic inspection of living intestinal mucosa it was possible to see that mucous secretion has as one of its functions the cleansing of the villi from small adherent particles. This is accomplished by the movements of the villi and other intestinal motor activities which bring the particles into contact with sticky mucus secreted by the goblet cells and present as a lace like meshwork over the mucosal surface. The mucus with adherent particles is then rolled up into small masses by the intestinal movements and propelled onward by the peristaltic action of the bowel

Florey and Harding (39) found that by isolating duodenal loops between the points of entrance of the biliary and pancreatic ducts, the secretion of Brunner's glands could be obtained. This secretion is a clear, slightly opalescent "mucous" juice of the consistency of egg white. It is apparently homogenous and can be diluted with water. Its most remarkable feature is its large carbonate.

content. Hydrogen-one estimations made colormetrically showed a pH of from 8 o to 8 s. Branner's glands can be activated by pouring hydrochloric acid over them. Florry and Harding concider, The significance of the siliatine secretion for the protection of gratife and duodenal mucous is indicated and a possible relationship between a fallow of secretion and the production of peptic ulter is suggested.

In France, somerous articles by Mooceans (rs) have led to extreme enhantsom for the me of modin not only in the treatment of lesions in the upper part of the abdomen but also in that of lesions chewisers in the gastro-intestinal tract. The French have become conviaced by their experimental and chinical investigations that mends as important these parties upon 1 or gastro-

intestinal lastons.

During 1903 about 12 tons of gastife much
were used in the United States alone by over 300
clinicians who reported their results to the Gastisie
Mucin Committee of the bothwestern University Medical School. The only cases considered
in the evaluation of matrix much for gastro-

doodman internative disease were cases of so-called intractable." where which had fauled to regined intractable." where which had fauled to respond to the ordinary medical regimes and for which surpical therapy was being considered. Thirtythree per cent of the patients had had previous surgical treatment and had developed a recurrence. The goo dimicians with limited experience to much therapy found it possible to render 6 § 1 per cent of these patients with intractable uncer symptom-tree Of the trensiting patients, 39 4 per cent were benefited by the treatment and 7.5 per cent were not benefited

The viscosity and emolsion properties of much which are approach to protect the ulera from mechanical and chemical irritations suggested to Jones, Ivy, and Althimon (54) the nee of the vegetable mediago from olar in the treatment of uler These Investigators report that in g cases in which they employed a highly purified vegetable much they employed a highly purified vegetable much they employed a highly purified vegetable much make more about the properties of their very subdactory results were obtained. Meyer Seidmon, and Nershelm (no) in reporting a repetition of their work in the cases of 17 pattents with definite duodental or gastro claver say. Fourteen of these had minordiste relief of symptons on taking providered dark in a 1-gm dones every two boom.

In addition, many other types of medical ther apy have been suggested Pour and Storm (80) report emrousaging results from infections of addition benzoute. Niles (73) like Pittin, has obtained gratifying results from the intravenous administration of foreign records. Automatical flats, and

emeths. Many French investigators and cliniciens, are reporting encouraging results from treatment based on theories regarding the role of certain amino acids in the pathogenesis and treat ment of ulcer Welss and Aron (100) for example state that following modified Exalto or as it is known in America, the Mann Williamson opera tion to produce experimental picers, there is incomplete digestion of proteins with the endresult that the amino acids necessary as building stones for body proteins are not avallable. When histkine and tryptophan are injected the incidence of experimental ulter is radically reduced. On the basis of these experimental findings. Pozzi and Stores treated cases of olcer with injections of s per cent tryptophan and a per cent ins-tidin. This treatment was followed by cenation of the pain, hyperacidity and hemorrhage, a marked gain in weight, and restoration of the romitee picture to normal.

The neurogenic etiology of peptic ulear presented so ably by Cushing (a<sub>d</sub>) in 1938 is again advanced by Countre (12) who noted an association of pituliary tumous and peptic ulear Course suggests the ms of pitulitin sahenium county in the

trestment of early cases of peptic older Babkin (c) and his coworkers, in an article on the nervous control of gustric secretion and the effect of vitamin deficiency on its production, report that they have determined a gestric secretory response to atimulation of the parasympathetic and sympathetic nervous systems. They have increased our knowledge of the physiological func tions of the gastric mucous by demonstrating that a deficiency of vitamins radically reduces the response to attrautation of these nervous systems When vitamins are again added to the diet the original response to norvous stimulation is practically restored. This may emissin the formation of experimental ulcers on diets deficient in vita mima.

#### a farmet

The Ricenture on pastroductorial discrative dissect during the last year has been concerned largely with an swinzshon of end-results from the various surplical procedures. Judging from the reports published, the operation groung the beat and creative in the Billroth I reserved in cases of described lecture in which this operation is offinently or provided and the surplication of the control of the surplication of the letter of the particular of the surplication of the surplication of the surplication of the surplication of the large surplication of the surplication of the Plantier resection. A wealth of material has accumulated substantiating Finsterer's contention that a resection for exclusion is justified in cases of duodenal ulcer in which resection of the ulcer is difficult and dangerous Lahey's modification of the Polya operation should eliminate many of the undesirable postoperative mechanical complications Lahey's lack of enthusiasm for gastroenterostomy and other palliative surgical procedures may be considered indicative of a further American trend toward more extensive surgical therapy in gastroduodenal ulcerative disease

It is noteworthy, however, that many surgeons are beginning to realize that frequently surgical therapy will not by itself yield a complete cure, since after the most extensive surgical treatment individuals with the ulcer diathesis still require medical management to achieve the best end-results

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## ABSTRACTS OF CURRENT LITERATURE

#### SURGERY OF THE HEAD AND NECK

#### HIGH

III the A. Benign and Malignant Parotid Tumora and Their Amenability to Cure (Generities and borestige Parolingachwedis und hire Hulungsmorphikacien) of Tag. L. deniad. Get. J. Cher. Berink, 214.

During the purely operative era the outlook for the cure of periodi tensors was very favorable in case the cure of periodi tensors was very favorable in case of malignant tensor host very undervenble in case of malignant tensors cause for treatment in a condition as which operation was no longer possible technically in most of the cases which were still operable a very including usually resection of the external curotide streny and unforting considers resortion of the streny and unforting conditions resortion of the streny and unforting conditions resortion of the streny and unforting conditions resortion of the validary meature was necessary. While the principles mortality of the cultipature was on, raped recurrence meanly spelled the operature result which at first second favorable as regards life of health

seemed; in worklood in regards the sea-basing Rental, invalidation has been used in a Unitariable Rental, invalidation has been used in a Unitariable Rental, invalidation has been used in a Unitariable regarding to the little for the little distances the result, the conclusions of over little distances to fix the little distances of the unifications for furnitumnit. The benight tuneous seriodicided in the discussion becture they also here unifications for furnitumnit. The benight tuneous seriodicided in the discussion becture they also here. Sometimes the conditions the seriodic discussion of the little discussion in the seriodic discussion of the little discussion.

q. 1 1033 85 petients with maligna 1 parcells tumors, at the bessays parcell tumors, and with bessays seited temors of the submanilary gland were observed at the Surgical Clinic and the Moentger Radium Institute. The wrange gr of the patients where the submanilary parts are the submanilary parts and those not not be submanilary was very great, the ages of the males ranging from twelves to serverly see your and those of the females from an to natly eight years. The retuo of males to females at the malignative provide (tumors was about 1. Cardinoscita were quest to the females. The ratio of males to females with bestly truncas was about 2.

In the dissification of the cases the miligrant intend timers must be placed in a group separate from the curcasonate and accounts for practical clunkal reasons as they are usually preceded by benign mixed tumon. In addition to the miligrant mixed timors, there is a small special group of a peculiar nature, the miligrant cylandromata which are usually preceded by benign cylandromata. The

important fact that, sooner or later even after as long as twenty years, benign parotid temors can change into mallement tumors, necessitates care and precaution also to cases of benlys tumors. The first signs of such a change are sudden increase in size, softening, loss of distinctness of the border and loss of mobility of the tumor pain, and facial paralysis. There shows must be observed at their very beginning When locking of the faw metastages in the seighbonng lymph nodes, extensive deep proliferation, and electration be occurred cure can no longer be expected from any procedure. In almost one-third of the cases of malignant parotid tensor reviewed the acoplasm had been present for a long time, fact andicating that it had previously been bealgn. With every second or third case of bealen mixed tumor w must recken with the danger of the development, sooper or later of a mabgrant change or mall great recurrence and it is ou duty t take this into conaderation in determining the indications for treat ment. In the btersture up t. the present time there are few reports based upon a considerable number of cases from sangle source which were followed up for large number of years. Reports of the results obtained in years after treatment in cases of malignant paroted are lew

I 9; Kesson reported os 27 cases of carcinosis of the puroud glade among like there was a case of eight year survival and a case of five-year survival site the operation. However in both of the litter an inoperable recurrence developed. Of yopicious trained for period cardinous whose caseers reported by Benedet and Meng in 9; survived tos years. This picture was insated by recengen and reduced irradiation in disconsistent of which is the property of the company of the faulty developed: recurrence Among particles trained for narrows of the parolid plant whose caseers reported by Benedet and Meng there were

who reminded free from symptoms for five years 1, 1911, Drune (Crymel, and Bharair draported that it is case of malignant mused issues among a perceival cases of cardoons of the petrol famil the potational survival of any years by incess of radium therapy, shows each three to six years survival in a for surtices and three to six years survival in a for surterated by critiquation and radium furnation. In \$33 Schilm reported that of patients operated upon it he! in a Surgical Chaic for entire on the percoting shows. I remained free from recurrent other

seven jeers.

In the entire literature there are reports of only 6 cases of malignant tumor of the perotid gland in which the patient remained free from symptoms for

five years or longer Therefore the results in the cases treated by Hintze may be regarded as very good Among 50 microscopically confirmed cases of primary malignant tumor of the parotid gland the five-year limit was extended by exclusively operative treatment in 2 cases of carcinoma, 2 cases of sarcoma, 2 cases of tumor representing a transition from carcinoma to sarcoma, and I case of malignant mixed tumor In 1 case of carcinoma and 1 case of transitional tumor, prophylactic irradiation was given after operation In 2 cases of carcinoma, 1 case of sarcoma, and I case of malignant cylindroma irradiation was given for recurrence after operation Altogether, 13 (about 42 per cent) of 31 patients were still alive after five or more years Of these, 8 (about 26 per cent) remained free from symptoms Of 6 patients with an inoperable condition who were treated primarily or exclusively by irradiation, 2 were living after five years and 1 of these was free - from symptoms The total results of this eclectic therapeutic measure in cases of microscopically proved malignant parotid tumor show that 40 per cent of the patients survived for five years and 25 per cent remained free from symptoms for five years If I unexplained death occurring two months after operation is excluded, the findings in cases of benign tumor (benign cylindroma and mixed tumor) show that 100 per cent of the patients survived and were free from symptoms for five years A few of these patients were operated upon more than once, and about half of them were treated by irradiation sooner or later, some of them for recurrence In the case of a woman with a bilateral mixed tumor, the tumor on the right side was removed by operation with resulting facial paralysis, and the tumor on the left side by irradiation without injury to the facial nerve

On the basis of these observations the following conclusions are drawn

The malignant tumor of the parotid gland and the tumor of the parotid gland which is suspected to be malignant should first be thoroughly irradiated. In this way a malignant lymphoma may be recognized as such and, at the same time, cured If the malignant parotid tumor recedes to at least half its original size within six weeks after the irradiation, the irradiations should be continued. When a small residual tumor remains after repeated roentgen irradiation, radium therapy may be used in addition. If the malignant tumor recedes to only a slight extent after the first irradiation, total extirpation should be done without further pre-operative irradiation and, because of the great frequency of recurrence, the operation should be followed by 1 immediate and several later prophylactic irradiations. A recent recurrence is destroyed most completely and permanently by irradiation Irradiation should be given first also in cases of older recurrences even when, because of its histological character, the primary tumor is known to have been only slightly sensitive to irradiation For recurrences with only slight sensitivity to irradiation, surgery should be employed so far as possible In cases of inoperable malignant parotid tumors intensive roentgen irradiation should always be given first and should be followed by partial extirpation and subsequent implantation of radium when these procedures are possible and seem promising. In the advanced stage, facial paralysis produced by the operation is of no importance as the malignant tumor itself leads to facial paralysis. A radical procedure is most effective in relieving the often almost intolerable pain. The development of distant metastases can be arrested only by irradiation.

The benign parotid tumor, while still young, is best treated by irradiation. When a benign tumor comes for treatment after it has been present for several years, as is usually the case, its size, location, and mobility must be taken into consideration in judging whether it can be removed surgically without injury to the facial nerve The surgeon must determine also whether injury to the facial nerve may be caused by the deformity produced by the tumor Steady growth, even though slow, seems to render it advisable to operate early with the risk of causing partial injury to the facial nerve in order that the greater injury which would be done by a later operation may be avoided. In every case in which an operation is performed for a benign tumor of the parotid gland postoperative irradiation should be given for the prevention of recurrence which is very frequent and has a tendency to become malignant (HINTZE) LOUIS NEUWELT, M D

#### EYE

O'Day, K. Operations for the Relief of Trichiasis and Cicatricial Entropion Australian & New Zealand J Surg, 1934, 4 23

This article is based on the results of nearly 800 operations for trichiasis and entropion which were performed at the British Ophthalmic Hospital in Jerusalem The pathological anatomy consists of one or more of the following conditions (1) trichiasis, (2) cicatricial entropion, (3) blepharospasm, (4) rounding of the posterior lip of the free palpebral margin, and (5) narrowing of the palpebral fissure

Operations for correcting the deformity of the lids may be divided into 2 main groups (1) those in which the lashes are pushed away from the globe, and (2) those in which the attempt is made to rotate the whole lash-bearing area outward. To the first group belong the Van Millingen, Jaesche-Arlt, and Spencer-Watson methods, and to the second group the Snellen, Hotz Anagostaki, Panas, and Burrough methods. Experience in Jerusalem has shown that most cases can be dealt with successfully by the Van Millingen operation, but for severe grades of entropion Snellen's operation is required and for trichiasis confined to the ends of the lids the Spencer Watson operation is best

The following instruments are necessary a small scalpel, a pair of curved and a pair of straight scissors, a pair of conjunctival fixation forceps, a pair

INTERNATIONAL ABSTRACT OF SURGERY of small toothicss forceps, a hid spatials,

of small toothics forceps, a hid spatials, squant hook, a needle hooker No advancement needles,

nd h. allk mines. General anesthesis is indicated only in the cases General assertions is industred only to the cases of course children to local stargents to obtained by a factor of a factor of the cases of a factor of the case o

act in minutes before the operation. For four or impeling the vitality of the introduce membrane adematic is not used in the practice. However, it is advenation is not used in up gr of aid in the other operations

aid in the other operations.
By these methods it was not difficult to obtain a By these methods it was not difficult to obtain a good immediate result. The majority of the patients left Jerusalem fee days after the operation and left Jerusalem fee days after the operation and included further treatment. With drance of the increase becomes transport from darker of the Continent process, recurrence was common when it was possible to give adequate first treatment of

Apen cuttables occurs in a pq into apper a pb When entropios occurs in a bd into which a lap graft has been meeted, the performance of Societies operation is not difficult, but when entropios rocurs operation is not difficult, but when entropion rocun-eller. Saellen operation great difficulty is often exparticularly in the structure great operation as letter fact. perienced in repeating the operation as large part of the targus has been removed. Under the latter of the tarms has been respected conditions up grafting is of value

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The authors report charactered and histological study case of nearmouse becomes and unconduct stands of case of neurinosas probably saving from one of the clary heres. The parient, and the clary heres. The parient, and there is no third with the clary here. The largor wheal evolutions of the control of the clark of the control of the clark of the clar

for three years its tumor which was the was or most free was a transfer of difficulty by the Exemple operation The result attractive by So f as the authors have been able to determine only more perturbanate of the orbit have been to only upe neutromate of the court wate occur to

ported to date. Pour were described respectively as gloom, a memolitorian of the orbit states of the orbit peripheral capabilities from of the orbit. Peripheral Capabilities from the orbit orbit states of the orbit orbit states of the orbit orbit states. the rune contains postograpes I the authors roentgroops and flue

Sendered J W and Assiston, & A Messisteet Gerthorne of the Settine Report of Manager With Pathological Observations. Area Open

Metaristic cancer of the retina at described in Aletamatic cancer of the retina as described in the claimed that his case was the only one or record in a prop the other next are reonly one or record in which the opine herve and retina were involved. The conculpance increases con-the case was one of instantages to the head of the object peaks a tp accordary award to the terms of the result of

The case reported this article by Smokerof and Againston was one of metastatas of guitto (rapping Against was one of measures or gracin imaginary of a caserring the retine proper not involving the other portion of the optic perre, to sheath or

the he symptoms referable to the cycle had been noted. The cycle as removed (factorary On the noted The eye as removed ( autopey On action, the globe persented in the temporal portion tion, the grove presented in the temporal portion uniform, white, solid-looking mass which elevated

he retries.

Alteroscopic examination aboved that the central Microscopic examination above or that the central tomor mass had originated from the retise and or tamor mass bad originated from the return and or coded to the faming vitres destrojing the ple tended to the lamins vities, destroying the pag-mented epithalism, but had to place invaded mented epithalium, but had t no place invaded the choroid. Scattered throughout the subsettled the chorosa, Scattered throughout the subsettled crudets there were single tamor cells and small crudets there are engle tomos cells and general Charges, some lying fee and others bordering on Bruch, near The outle of the tome fee found in the term there have a been one proposed hound to be the nerve index in or where one a spring from the wall of

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In 103 Goldstein and Wexler obtained hutolog In 193 Constitute and Wester obtained autosog-ical proof of the transmission of cancer cells by the are proof of the Destination of Cancer cells by the blood stream by finding blood resset in the sub-dural space laden with cancer cells 1 the authors' case tomos cells, ere found in several of the authors case tumor cetts ere found in several of the blood reasets and prefrancular (ramphatics of as alred reach and privatedlar imphalics of a direct organs. Therefore the retinal metastage probably occurred as the result of the passes of the transfer of the passes of the pas cambohn through the central branch of the ophthal canonis through the central tranch of the opinion, me artery and its kedment in one of the smaller mic actory and its sogment in one of the amanet actorises of the name fiber letter instead of by the Arteriodes of the nerve other layer finiteed of by the chorold

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the other end of the emissional func and that the masspharyan and is discent cavibas should be explored in every case of though massic infection to the control of the cont

Ruble I. a Farcad Drainage for the Treatment of Manifesting Secondary to Ear and Manifesting Age Call Ruble to Layren Site.

The uther states that, from the ten cases he re rays, no conclusions may be drawn ith regard to value, no concursoes may be drawn its report to the influence that forced drainage may have on the the innumer that source unsues may have on the moortality of morningine accordingly to say and about mortality or morning in actionary t an and areas and areas to the individual cases have shown an affections While individual class have should an Pparently remarkable response to the procedure, it so opposes that the tearity will asta any the starteness to the bencember is become to the bencember in

of the infection, the extent of the bone involvement, the nature of the organisms, the presence or absence of blood stream infection, the general intoxication, and the response of all of the organ systems The specific treatment of the meningitis is only one part of the treatment No form of treatment directed against the meningitis alone can save life in all cases

# NOSE AND SINUSES

Plasmocytoma and Rhabdomyoma per, A G riasmocytoma and Khabuomyoma of the Paranasal Sinuses Pathological and Surgical Considerations, Report of Cases Cooper, K G

The author is of the opinion that solitary plasmocytomata and multiple myelomata should be classified with the malignant lymphomata He reports two cases of solitary plasmocytoma and one case of rhabdomyoma of the paranasal sinuses thirty-two plasmocytomata reported in the literature to date, the majority were found in the upper respiratory tract.

Operation with postoperative irradiation seems to give the best results

## MOUTH

Perussia, F. Radiotherapy of Cancer of the Mouth (La radioterapia del cancro della bocca)

Perussia presents statistical tables which show that in cases of cancer limited to the margin and dorsum of the anterior part of the tongue, the gums, and the lower maxillary bone the results of radiotherapy and those of surgery are about the same, and in the cases treated by irradiation the mortality is lower as there is no operative mortality In cancer of the lips, the palate, and the floor of the mouth the results of radiotherapy are considerably better than those of surgery For operable cancers of the cheeks, the base of the tongue, and the tonsils, radiotherapy is distinctly superior to surgery, whereas for operable metastases in the glands of the neck surgery is

The limits of cure have been definitely increased decidedly superior to radiotherapy by radiotherapy Pfahler says that from 50 to 75 per cent of cases of cancer of the mouth could be cured if thorough radiotherapy could be given in the beginning of the disease, but that education of both the public and physicians is necessary for early diagnosis In cases without glandular metastases the incidence of cure persisting after five years is 40 per cent, whereas in cases with glandular metas tases it is only 10 per cent There are, of course, cases which cannot be treated even with radiotherapy Among these are cases with severe sepsis, cases with phlegmons such as are seen in advanced carcinoma of the cheek and the floor of the mouth,

and cases with far advanced cachexia Biopsy is important as the radiosensitiveness of the different types of cancer of the mouth varies

greatly Surgery is to be preferred for small cylindromata of the palate, carcinomata with very highly differentiated cells and slow development which are made up chiefly of corneal pearls, and adenocarcinomata Radiotherapy is to be preferred for lympho-epitheliomata, carcinomata with less highly differentiated cells and numerous and atypical mitoses, and the lymphosarcomata and the sarcomata made up of small round cells, which are frequently seen in the tonsils The technique of radiotherap) indicated depends on the radiosensitiveness of the

As the majority of cancers of the mouth are tumor in the particular case prickle-celled epitheliomata which are very resistant to radiotherapy, they should be given divided doses of strongly filtered rays of short wave length The doses should be as large as possible without causing injury to the normal tissues While it is impossible to administer a uniform carcinoma dose, the dose of from 3,500 to 4,500 r recommended by Coutard may usually be given for mucous membrane and skin epitheliomata. In cases of very sensitive tumors, such as sarcoma of the tonsil, it is not necessary to use Coutard's technique as good results can be obtained with ordinary deep roentgen therapy Treatment with a single massive dose of roentgen rays is now rarely used in cancer of the mouth except for very small carcinoma of the lip The dose of radium is about 1 or 2 mcd given by intratumoral fixation of needles In many cases the combination of external roentgen therapy and intratumoral radium therapy has proved very effective. In some cases radionecrosis is unavoidable. Of 375 cases treated with radium in the period from 1928 to 1933, it occurred in 23 The fact that it is most frequent after the intratumoral use of radium and in patients whose mouths are in poor condition suggests that it may be caused by infection Its incidence is reduced by a careful technique and hygienic care of the mouth

# PHARYNX

Modern Surgery in Diphtheria Observations on 6,011 Cases Arch Ololary ngol, Bailey, C W

The most proximal sites of respiratory obstruction encountered in diphtheria are the orophar, nx and hypopharynx Cervical cedema appears rapidly and often causes complete obstruction of the lower part of the pharynx The only means of real relief in such

The next type of obstruction is that of the larynx, cases is an orderly tracheotomy trachea, and bronchi Routine inspection of the lary nx by direct laryngoscopy should be done in every case of croupy cough or labored respiration All pseudomembrane should be removed by aspiration through the laryngoscope If necessary, a long aspirating tube should be passed through the lary ngoscope to remove pseudomembrane from the tra-This is preferable to the use of During the first twenty-four to chea and bronchi the bronchoscope

that's down the membrane may require reasonal serveral them as it define reforms in from six to twelve boars. Although the use of the O'Dayen to be of the resulting the server is should be undestrible. If intuitation is accessive it should be performed by the indirect method and should sever performed by the indirect method and should sever performed. The tube is usually left in place for five days and then removed and the out if nousline.

The third type of respiratory obstruction is dight theritic brunchopseumonia. This is usually associated with introbebrouchied dightheria and is shays intal as no effective therapy is known. It is usually due to obstruction of the reminal brouchicles from Bourdaction of the trachestropouchial membrane.

The relief of chronic tube cases" has been a serious problem since the invention of the O'Dwyer tubes. The essential leades is a chariful stenois of all or part of the larges. Two methods of treatment are available. In the first method is larger calibrate and available in the first method is larger calibrate which is a first case of the cas

Translections is now seconsary companial trief seldom. It is indicated only in pharypoged obstruction caused by excessive cervical redees and in few richronic tribs cause. It as exict larypaged diphthems in it is rurely performed, but us such safer procedures than intuitation without perliminary larypapecopy and apparation. It is safer also than leaving the implication process of the other period of the safer also than leaving the implication of the out of the other period of the

is the country

If dipathers becall persist in the threat after recovery from dipathers the topolis and admoids

abould be removed.

A presentably posture usual discharge should be treated by an ephederic spray and head irrigated with owned ask solution. If the secretion is sail positive after ten days of this treatment, the form will mainly be found in the accessory shumes and abould be drawed surpostly. A persistently positive and the same positive statement of the same positive within a second production of the same positive section is sensity indicated if improvement does not result is from these to are weeks. Arrare 3 W Toonory MD

#### RECK

Mass, U. Boyce, F. F. and McFetridge, E. M. Hyperthyroidism in the Negre, with see Analysis of Seventy Three Coses. Il set J. Surg. Obs. Br. Gymer. 1934, 4–495.

Surgically the Negro represents a definite problem. The maintin is very poor surgical risk, while the black Negro is a very sais surgical risk. The scotthern Negro has peer legismic surroundings, and as he is prova t disregard early symptoms, he amally presents an advanced pathological condution by the time he entern the honertal.

Gotter in general and tonic gotter in particular is relatively rare in the South in the New Orleans Charly Hospital, where the admissions swrang apono annually, the authors were able to collect only 34 samplest cases of gotter. One knowled and botty-cight of the cases of smigral gotter were those

of Negroes and 72 of the latter were toxic. In the Negro, hyperthyroldism is sausily secondary to a simple diffuse or colloid gotter. The toxic manifestations are less severe, the basel rate less lower and the postoporative resortions are less

serious than in white persons

In the total secte of \$4\$ expect cases of piles coted by the subbone the nontrally was \$7\$ for cent, in the cases of white persons it was \$7\$ per cent and in the cases of negroes it was 10 per cent. The total mortality in the cases of makes was \$7\$ per cent, and the cases of makes was \$7\$ per cent, and the mortality of white makes, per cent. The mortality of white makes, per cent. The mortality of white makes, per cent that the total number of cases of tunic thyroid disease was \$7\$ per cent to the cases of tunic thyroid disease was \$7\$ per cent to the cases of Negroes was to per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes white personals, oper cent and to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the cases of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the case of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cent to the negroes of Negroes was \$7\$ per cen

18 per cont. Although hyperthyroldien is less severe in Negroes than in white persons, fix snortally is higher in the Negro. This is explained by the Negro is frequent desky in secting treatment, cardonacular complications on a hyprototic or syphistic base, the greater frequency of texts golder to the modalite about a poor surrical risk, and the greater technical difficulty of the operation does to the advanced stage of the conductor.

The a thors state that the medience of tenic gotter is the Negre is rising In one the number of cases admitted to hospitals was 4 times greater than the number admitted during the period from 1927 to 250.

The treatment indicated for Negroes is the same as that indicated for white persons, but the Negro must be educated t seek treatment carlier

Cerrell, R. B. Eye Compiler tions in Exophthalania Golter Ass. Sart. 034, 100 A4

FRED S MODERN M D

There is greened types of ocular complications in couplibilities point. These of the lens causes type are cattrict and featured and cattering and restaur of the source from the feature following the restaur to demonstrations of the source frequent type are related to emphitializes and the completations. This report is based on 4,314 operaturely treated causes of explitabilities (price and prefixingly inspections). 6 ( per cent) were followed by parethyroid testers. In or case the festing a section and transient and no eye completations developed Of the 6 ones in which the testay was

chronic, there were no eye complications in 2, lens opacities developed in 2, and frank cataracts were opacities developed in 2, and mank catalacts with formed in 2. In 1 of the cases of lens opacities the tetany was fatal, and in the other both eyes were ultimately lost from progressive exophthalmos the 2 cases of frank cataract the first visual signs developed after twelve and eighteen months respecdeveloped and two and a half tively and the cataracts matured in two and a half

Exophthalmos is one of the cardinal signs of and three years respectively exophthalmic goiter although it occurs also in many other conditions. The cause of exophthalmos in The facial appearance, simulating fright, suggests a sympathetic indicate and the condition mith which the exophthalmic goiter is still unsettled thetic influence, and the rapidity with which the exophthalmos frequently disappears suggests a

nervous rather than an anatomical origin To determine the incidence of exophthalmos in exophthalmic gotter the author reviewed the records of 800 consecutive cases of the latter condition Exophthalmos was present in 364 (46 per cent) of Exoputing was present in 304 (40 per cent) of these cases and absent in 421 (52 per cent) records of 15 (2 per cent) of the cases the presence or absence of exophthalmos was not stated Of the 364 patients with exophthalmos, 9 had a unilateral and relation between the seventy of the disease and the 13 an asymmetrical exophthalmos degree of the exophthalmos, but a definite relation was apparent between the duration and degree of

Of the 800 patients, 720 (90 per cent) were Ten times as many females as males had The age incidence of exophthalmos the proptosis followed the general age incidence of exophthalmic The ages ranged from two years and eleven females exophthalmos

Of the 364 cases with exophthalmos, the exophthalmos was completely relieved in 183 (50 3 per months to seventy-six years cent), improved in 48 (13 2 per cent), and not improved in 78 (13 2 per cent). proved in 79 (217 per cent) In 4 (11 per cent) it increased In 50 (13.7 per cent) the outcome as regards the archibelmon may not determined

gards the exophthalmos was not determined Of the 183 cases in which the exophthalmos disappeared, the cure was complete within a year in

In 26 cases, exophthalmos developed after the operation In 10 of these the toxicity persisted or recurred, in 12, the basal metabolic rate was normal, and in 4, myxcedema supervened

The myxcedema was relieved by the administration of thyroid ex-

Of the 4 patients whose exophthalmos increased after operation, 2 were relieved of the hyperthy-

roidism and 2 remained toxic.

A number of procedures have been advocated for the treatment of extreme exophthalmos Cervical sympathectomy and plastic operations performed bympathecromy and plastic operations performed on the external canthus have been of little benefit Naffziger has developed an intracranial operation m which the roof of the orbit and the inner margin of the foramen opticum are removed

Roussy, G, Huguenin, R, and Welti, H The Histological Structure of the Thyroid Remaining After Cure of Basedow's Disease by Subtills filled Oute of Baseson o Biocase by Subthyroide restante après guérison de la maladie de Recedon par thyroidetenne autorial autorial Basedow par thyroidectomie subtotale)

In two cases of well-developed exophthalmic goiter cured by subtotal thy roidectomy the authors were able to make a histological examination of tissue from the portion of the thyroid gland remaining In one case this examination was made fourteen one case cms examination was made fourteen months, and in the other five years, after the thyroidectomy In both cases the second operation was performed for the removal of an unsightly scar. The case histories are reported in detail patients had severe Graves' disease and both were apparently completely cured In both cases the apparency completely cured in both cases the portion of thy fold remaining presented the typical microscopic appearance of the hyperplasia seen in Photomicrographs 50 called exophthalmic goiter

The authors conclude that the symptoms of made in the first case are shown exophthalmic goiter are due, not to a dysfunction, but to the hyperplasia In support of this conclusion they cite the fact that the amelioration of the symptoms under 10dine medication occurs concomitantly with a reduction of the hyperplasia

Zuppinger, A, and Rohrer, C The Clinical Aspects and Treatment of Struma Maligna A pects and Treatment of Treated in the Period Report on 101 Cases Treated in Therapie der from 1918 to 1922 (Tur Klinik und Therapie der from 1918 to 1933 (Zur Klinik und Therapie der Struma maligna Bericht ueber ioi Faelle von 1918-

The authors review 101 cases of malignant struma which were referred to the Roentgen Institute of the University of Zurich for irradiation treatment in a period of fifteen years They state that in the east ern part of Switzerland thyroid sarcoma is almost as frequent as thyroid carcinoma and Langhans, as truma together. The cases are decidedly unfavorable of the assessment when the cases are decided as the case are deci able Of the patients whose cases are reviewed, only 6 could be operated upon radically, and of the latter, only 3 have remained free from symptoms since the operation In only 48 of the 101 cases was it possible to complete the treatment. In the others only palliative treatment could be attempted A comparison of the different methods of treat-

ment used shows that operation with postoperative irradiation gave no better results than irradiation alone even though in the cases treated with irradiation alone the prognosis was less favorable than in the cases treated surgically Irradiation with fractional doses over an extended period yielded considerably better results than the method used in the beginning as it rendered complete treatment possible in a considerably greater number of cases In some cases in which the condition was far advanced it resulted in freedom from symptoms, but the length of time that has elapsed since the treatment is still too short to permit the assumption that a permanent cure has been obtained.

Yan Poole, G McD: Tuberculosis of the Larynz.

Arck Older; pl. 954, 20 52.

Larymees) toberculous is almost invariably assoclated a th severe chronic polynomery tuberculods It is the result of constant contamination of the mucous membeanes by bacilliferous sputum. As rule the more sovere the pulmonery dheses, the more severe the laryngest disease. Manage disthegolabes the following stages of lary need involvement (1) infiltration, ( ) ulceration, (1) perichondrittle and (4) tumor formation. Of these, ulceration is the most common and the most distressing. The ulcers appear to occur most frequently on the vocal cords and especially on the vocal processes. The lesions usually spread to the ventricular bands, anytenoids, and the base of the emplotths. In a down and direction, they spread to the traches and large bronchi

The early symptoms of laryaged inherenous articles of interference with phonation Homemons, change of the patch of the voice scarning of the facts of the voice scarning of the facts and a parmy sail unpreductive cough as contrain Later symptoms are path on phonatics or edge inten, refer osigm, and the peculiar shihart whaper lich as the unmistrable sign of the distance of the contraint of the c

finer brunchioles with atelectasis of large areas f

This report is based on a study of pa cases of laryaged tubercators in moise and \$\frac{1}{2}\$ cases in females which are observed thrules a period of five para. The former constituted \$\frac{1}{2}\$ per cent of a series of yaq cases, and the latter \$\frac{1}{2}\$ aper const of a series of yaq cases of polinomary tubercators. The total number (440 cases) constituted \$\frac{1}{2}\$ aper per cent of a class of polinomary characters of \$\frac{1}{2}\$ of cases of polinomary of the total series of \$\frac{1}{2}\$ of cases of polinomary.

taberrukeda The first principle of treatment is the establishment of adequate therapy for the pulmonary lesion Of 188 cases treated by presumothorax daring the preceding year t the author lessitution, active larguaged involvement was found to only 4 Before treatment by passmothers; had been begus in these 3 cases, larrageal toberculosis was present in 33 The cardinal principle of local treatment is vocal rest. Among the various pathetises employed for the relief of pato and dysphagia are cocaine hydrochloride, ethyl amino beneoste lorenges, and ice chips. The injection of \$5 per cent alcohol into tion or both supralaryngeal nerves is practiced extensively in refractory cases in the majority of cases electrocauteruration is by far the most satisfactory local measure By this method, vascularisa-tion of the lesion and fibroplastic replacement are promoted. In cases which are unsulted for cautery palliation, every possible procedure that gives prom he of relief should be employed

Arrens 8 W Tourner M.D.

## SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS, CRANIAL NERVES

Russell, W R The After-Effects of Head Injury Fdn bergh W J., 1034, 41 120

This article reports the findings in 200 cases of head injury in which a follow up examination was made on an average of eighteen months after the All of the observations were made by the author who had studied each case during the acute stage of the illness

Is the incidence of after effects was found to be highest in the older patients, Russell concludes that age is the most important single factor to be considered in estimating the prospects of recovery

The most common post concussion symptoms were (1) headache, (2) dizzines, (3) loss of memory or mental ability, (4) nervousness (5) disturbances of behavior or personality, and (6) sleeplessness

One of the most astonishing findings of the authors study was that 3 5 per cent of persons suffering from post concussion disturbances develop epilepsy

The relationship between the severity of the injury and the duration of incapacity was fairly well indicated by the duration of the complete loss of consciousness

The patients who sought financial compensation were much slower to return to active work than the others

The author concludes that the presence or ab sence of a demonstrable fracture of the skull is of little importance in the estimation of the severity

The treatment employed for the post concussion syndromes is described R GLEN Sperking, M D

Puech, P., and Stuhl, L. Adenomata of the IIvpophysis Roentgenological Appearance of the Sella Turcica (Addnomes de l'hypophyse aspects radiologiques schematiques de la selle turcique) Presse med , Par , 1934, 42 1131

Iwo special examinations, namely, ocular and roentgenological, are essential for the early diagnosis

of tumors of the hypophysis

An adenoma of the hypophysis passes through two anatomical phases, one within and the other outside of the sella turcica. During the first phase the tumor may remain for a long time microscopic. There is no change in the sella and, when the adenoma is of the acidophile variety, the condition is manifested only by an acromegalic syndrome With an increase in the size of the tumor, the sella becomes distended and the adenoma pushes upward to become suprasellar or downward to become infrasellar and invade the sphenoid fossa

In spite of the variations in the shape of the normal selly, experience has shown that a certain roentgenological appearance of the sella is associated with each variety of adenoma. In cases of chromophobe tumor the sella turcica is distended in all diameters and the clinoid processes are thinned There are no home hypertrophies such as are assocrited with acromegaly. On the contrary, the walls of the sella are atrophic

In cases of acidophilic adenoma the appearance of the sella is quite different To distention which occurs chiefly in the vertical diameter are added hypertrophy and clongation of the clinoid processes Particularly the interior process is prominent

Tumors of the posterior crannil fossa may be con fused with hypophy seal tumors because occasionally they cause an acromegalic syndrome. However, the syndrome develops late, several years after the symptoms of intracranial tumor. Moreover, the deformity consists of destruction of the quadrilateral plate (clivus) of the sphenoid. In doubtful cases ventriculography clears up the diagnosis Particularly difficult to distinguish from hypophyseal tumors is retrochiasmatic arachnoiditis. In this condition the sella is normal

The roentgenographic images are of some aid in foreseeing the operative difficulties that may be en countered in cases of acromegalic acidophile These difficulties are caused by the hypertrophied clinoid processes

The article contains twenty one illustrations ALBERT I DE GROAT, M D

Adson, A. W. Operability of Brain Tumors. Ann Surg, 1934, 100 241

Many physicians still hold the opinion that all cases of brain tumor are hopeless. While many brain tumors are inoperable because of a malignant structure or maccessibility, a fair group can be removed completely and a larger group can be removed subtotally or by the intracapsular method. The in creased intracranial pressure produced by the in operable tumor is frequently relieved by suitable decompressions The interval of relief is often in creased by the aid of radiotherapy Surgical treatment of brain tumors is not a hopeless and worthless procedure

Until the last two or three decades, most general surgeons were more concerned with the technique of craniotomy than with the problems of the treatment of tumors This fact was responsible for the development of the new surgical specialty known as "neurosurgery" The neurosurgeon is qualified to evaluate clinical, neurological, and laboratory findings and to execute the accepted modern surgical procedures in the treatment of tumors of the brain

In order t evaluate the operability of brills to more, Adean reviewed a sense of see consecutive cases of brain tumor operated on at the Mayo Chuic in the elpharen months from April, 931 to September 1933. The t more was removed completely in 9 and substailly in 00. The inter-included 35 cases of pituitary tumor and 19 of neurinoma of the accountle nerve.

Many surposes here changed the anesthetic employed from time to time. Adon has always returned: the use of other as he has learned that drop sther inhalation can be employed with safety and likeoit causing a the in the blood pressure if the other administered on a open mask held over a Magill tobe which has been survoloced through the nose or mouth into the trackes. The intratent of the control of the cont

The surgical field, which does not always include the entire bend, is shared and thes cleaned with soap and water and solutions of either and simbols prelimizary to the application of a coate of a 1,000 alcoholic soil tion of mertifolate. The wound is further protected by saturding absect of sterilized rubber dams about the proposed surgical field. The rubber dam is of afficient size to extend from the

head over the instrument table

obtained by careful approximation of the bone flap periostrom, mucica, facts, gales, and skin by m terrupted sill source. Burr opening are filled with boar dost which has been made fatto pledgets by wrapping animal membrane boot ground bone obtained at the time of the opening. Drains are rarely med.

In the closure of the wound the best results are

Most surgeous prefer to complete the operation in stage ad, if accessary resort to blood transfusion during the operation. In emergency solution of aracia may be substituted for blood

Surpocall towers of the hern are classifed into large groups, the ore indering encapsulated and creasable indirecting transon, and the other different molificating and inaccessable it forces. The encapsulated accessable is more to removed by surgery most cauly brit the indirecting tomor when situated in a altent area, can also be removed by including the brain boat it. Reduced rescribing of different indirection in the state of the surgery model if removal of the timor may result in homespecial to the interest of the surgery of the surgery

#### SPINAL CORD AND ITS COVERINGS

Stern E. L. The Relief of Intractable Pala by the I traspinal I jection of Alcohol. Am J Swg Q14.85 7

This article is based on fifty intrasplinal substachsoid injections of up per cent alcohol for the relief of accrumating pair of chronic nature. T esty in of the injections were given in nineteen cases of carchome.

The specific gravity of 95 per cent alcohol is from 300 to 0 8 0 as compared with the specific gravity of cerebrospinal fluid which is 1 007. As alcohol will float pon cerebrospinal fluid its spread can be limited to the desired segment by having the patient flex the spine laterally. The level of the injection is determined from a consideration of the sociatic and sympathetic pathways favolved in the particular case. The patient must be placed in the correct position with the center of the area to be affected by the alcohol apperment in the horizontal level. This position may be trained by flexing the patient over pillons with the head always lower than the part of the spine to be injected. A fine lumbur puncture needle should be used and free flow of clear cere bromanal field obtained Between 4 nd 16 minums of sterile 95 per cent alcohol with specific gravity ith a tuberculus below 8 6 are injected slowly syrings. The dose depends upon the location of the injection and the effect desired. From three t. four misutes should be taken to inject the skohol without barbitage or the injection of air. The patient should retain the same position for at least ten minutes after the injection and then be placed flat in bed for two bours ith the foot of the bed elevated from 4 to S in He should not sit up for four hours after the rejection and should remain in hed twenty-four bours. The i lection may be repeated after fiv. or mx days if the pain continues or if it is necessary to inject the other side in cases of bilateral pairs. The puncture should never be made above the first thoracic vertebrs. The maximum amount of alcahol injected between the first and second thoracac vertebre should not exceed 8 minims. It must be remembered that the pain may pendst for as long as two weeks after the forectors

The wine believes that the intraplial section of alcohol is practical and as! ben t is done properly It manufly releves intractable pain. It may cause only partial anesthesis and does not prulyes muscles. Reserv Zottrwars, M.D.

Ley A. The Surgical Treatment of Syringony sile.
(Le transmente quirirgeo de la suragomeia).

Re decres de Berndons, 914.4 0

The athor reports four cases of myelopathic civilies with the symmogradic syndroges which were operated upon by the Eisberg Francep method. The first two acre observed by Bin. I brancep a clime in Dorpat, Estbodia and were reported in Pouserp. Semjed Memograthology published in pl. The last two were operated upon by Gardner of Chryshol.

Ley has collected from the literature eighty-eight cases of intramedullary cavines in hich the Eisterg Pounepo operation was performed II satyres them statistically draws general conclusions from the results, and discusses the trends of opinion as to the comparative efficiency of surpoil and Newsy

trestment

The results of operation vary markedly and are ometimes presidented. This is explained by the differences in the causes and pathological characteristics of the civities Further pathological knowl edge is needed for the differential diagnosis of the my elopathies characterized clinically by the syringo my clic's ndrome Of the case reviewed, 70 per cent showed improvement, 13 per cent no improvement, and 17 per cent aggravation of the condition six months after the operation. In the cases of aggravamonths after the operation in the cases of agents. The corresponding percentages for the late results which were reported in only 17 cases, were 64 7, 11 8, and 23 5 per cent The unfavorable results increased with the pressage of time. The previous duration of the disease had only a slight effect on the immediate results, but a marked effect on the lite results. The symptoms most amenable to surgical treatment are the sensor. and trophic disturbances, pain, and the signs of compression of large nerve tracts Pareses of the pempheral type and muscular atrophy are soldom

Let believes that in cases of the stringomyelic syndrome in which the diagnosis is made with cer tainty, treatment should be guided by the hydro relieved dynamic conditions of the cerebrospinal fluid spinal block, even partial, is present liminectomy should be done and the lesion adequately treated If a cavity is found, it should be drained. If there is no block, irradiation therip, should be tried and its effects carefully noted If there is the slightest aggravation of the symptoms if spinal block appears, or if the patient does not show improvement in a reasonable time, surgical treatment should be under taken In grave advanced, or rapidly progressive cases, especially those with marked trophic changes, surgical intervention should not be delayed unless irradiation produces marked improvement within a short period of time to single sign is of special to special the rognosis of the response to t tion has resulted beneficially in about two-thirds of cases of less than four verrs' duration. In about one fourth of such cases its results have been unfavorable In cases of more than four years' duration the number of cases in which the condition as made worse by the operation rises to more than 50 per cent However, it must be remembered that in cases of such long duration irradiation therapy is com

The eighty eight cases treated surgically are sum manzed in a table pletely meffective an extensive bibliography

# PERIPHERAL NERVES

Bergstrand, H A Malignant Tumor of the Left Tibial Nerve 1m J Cancer, 1034, 21, 588

The author reports a case of malignant tumor of the left tibial nerve associated with multiple pulthe feit tional nerve associated with multiple pur-montry tumors. The patient, a man thirty one verts of age, first noted pain over the distribution of the tibril nerve This was followed in six months by a palpable tumor in the left popliteal fossa Lighteen months after the onset of the pain there was parests of the flexor muscles of the toes, and ty enty two months after the onset symptoms of pul monary and cerebral lesions appeared and a ere fol

Autops), did not include examination of the head It revealed a sustform enlargement of the lest tibial loved by death nerve 5 or 6 cm below the branching of the peronent nerve and multiple tumors in both lungs and pleural cavities

On gross examination the tumor of the nerve was found to be gravish white and fairly soft. The cut surface presented vellowish areas and a few small bemorrhage The nerve trunk could not be disnamormage Ancroscopic examination showed that the tumor had forced the nerve trunks apart. The mychn sheaths had disappeared to a marked degree The tumor consisted largely of vessels and inter stices filled with fat lorded ranthomy like cells The vescel walls were composed of a thin layer of endothelium surrounded by loose nucleated connec tive tissue which in turn was surrounded by a thick laver of hyaline connective tissue. The residue con sisted of empty nerve fibers exhibiting a prolifera tion of the Schwann cells These proliferating sheaths of cells were characteristically split by mem branes of connective tissue Proliferations of the neurlemma strongly suggested those of a neuroma The hemangioma infiltrated the surrounding mus

The growths in the lungs were composed of cells cles as well as the nerve trunk with closely lying oval or slightly clongited nuclei arranged in rosettes The cell clusters were sepa rated by connective tissue carrying capillaries

As the tumor in the popliteal space was the first to cause symptoms, the author believes that this growths showed no characteristics indicating that they were derived from vascular tissue Bergstrand tumor was primary therefore suggests that the proliferation of the cells of the sheath of Schwann was the source of the pulmonary metastases

# SURGERY OF THE CHEST

### CHEST WALL AND BREAST

Treel, D Acute Purulent Maetitle During Lacta

ed, D. Acute Purinent america conting assets tion (La mestrie persiente acute de allatramento)

The uthor reports twenty cases of acut purulent mastitus occurring during lactation. H describes the becterological and pathological findings and the treatment l'iltern of the patients ere primipare The principal bacteria found, ere staphylococci and streptococci, but other octanisms were also besent For councile reasons, the incison for drainage was to treate a reason, the meaner for trainings was training was training to the edge of the breast. Cure resulted in all of the cases. The duration of the infection ranged from eleven to fifty nine days

A LOUIS ROSE, M D

Mouleognet Dolfris, P The Disaposis of Canori of the Breast (Desposite du caners d'aca) G) alcologue, 934, 31 323

In its early stages cancer of the breast may simulate a number of conditions, notable among

Necrosis of cysts of the premammary fat This is usually the result of atoly as of the fat from training, but occasionally t occurs in large and pendulous breasts in the absence of pensiments occasis in the america or manay of itsums. It is characterized by exchymosis dating as rule from recent injury. The letton is superficial, ruse from feeting including is often necessary to

Chronic infectious mastitis As this is often present t the menopensal go it creates difficult process to the management as a creates union-dategrootic problem H werer, there is frequently history of antecedent acute infection which is of aid A disgostic incison should be made when there is doubt as t the nature of the condition

S philis and tuberculous

4 Isolated cysts These are formed very msidously and are usually attracted in the center of the breast Exploratory puncture is comparatively simple procedure of great disgnostic value

Figuresta cultural continues in sections be incremented in Breat cultural and annual continues of the contin and t berculous ornen Sometimes an incision must be made for napection and microscopic

6 Generalized dystrophy (Rectus' disease) which is often busters! ad deseminated throughout the

The localization of the cancer as when the lesson The accumentant or the centur has when the amount in the sanifary prolongation of it is the above of the abov periphery of the gland and firmly fixed t the chest

The ulcrary experience the application of the supple should be recognized early but are fre quently mustaken for chronic eczenia

Bleeding from the abple may be due to benign papillomatous tumors Therefore t does not necessarily indicate that a tumor mass is malignant Apparently adenomatous tumors of the breast in

omen over lorty years of ga should be looked apon such first suspection as they are usually magazent or contributions of the second over roots years or the second over the seco

no great susponed as they are usually insugned. Roentgenography and translamination of the breast offer little help in the diagnosis The a thora behave that increased and examination

of the suspected res by the naked ey is of the greatest value. The surgoon should be ready to do complete operation if mahammey is found microscopic examination should also be made. The authors re of the opinion that by a combination of possible to cure most cases of cancer of the breast. th early diagnosis ft is Marie W Poore, M D

## TRACHEA, LUNGS, AND PLEURA

Pottenger F M Non-Operative Versus Operative Measures in the Treatment of Palmonary Alexander in the community of Amilia. T bercolosis. Am. J. H. Sr. 934, 125 69

According to the uthor the following types of palmonary tuberculous will host fairly regularly

Early limited lealons of either the proliferative or the exudative type

More extensive proliferative lemons involving one or both hungs which have not formed extensive one or toom much some nevo me some extensive cavitations While small cavities of this type may monauros, the healing of large ones without operative and is more doubtful especially when the cavities are multiple Whether or not such lemons will heal depends to considerable degree on the extent of the injury buch has been done to the lung tissue and the mints men men need never to two round or more and bet cen the lung volume and the intrathoracie space

5 Exadetive legions more extensive than those of 3 Latinus tree seasons more extensive times the group with or athout on my formation, provided the confidence of the con the non-infected lung there can take on the required complyaematous changes and the mediantmum is free abilit of its shifting is required by the compensation necessary and provided other limiting structures are able t accommodate themselves to the reduced long volume The carl formation of cavit in exida tive t berealous will not prevent healing maless the cavity is held open by pictural dhesions and fixed mediastinum or is so located that it cannot close

4 Estudative lemons high re accompanied by extensive telectages. These will usually beal even hen they are accompanied by high temperature which requires several months to reach normal

According to the purely scientific viewpoint, there are practically no early cases that regularly require are practically no early cases that regularly require operative assistance. However, in cases of more adoperative assistance riowever, in cases of indice auvanicu disease there are several types of resion which cannot be depended upon to heal without operative

Comparatively small lesions with a cavity which is held open by pleural adhesions and is prevented from closing because the unaffected lung vented from closing occause the unanected range tissue is not able to make the necessary compensatory changes Examples of such are apical or subtory changes covered by a pleural cap, especially apical cavities covered by a pleural cap, especially apical cavilles covered by a picural cap, especially apical cavilles covered by a picural cap, especially those associated with fixation of the upper methose

Active lesions which continue to form metastases unduly long in spite of carefully followed diastinum

Designs in which a destructive process is non-operative treatment seriousi) threatening cavit) formation threatens during the course of cavit) formation threatens during the course of seriously threatening cavity, chronic tuberculosis it should be prevented by

Lesions which are prevented from healing by These include small cavities situated so that their walls cannot collapse, such collapse if possible as cavities in the apex covered with a pleural cap, as cavilles in the aper covered with a picular cap, small cavities in dense scar tissue situated in any part of the lung, small cavities near the hilum or diaphragm, extensive infiltration, with or without diaphragm, extensive mineration, with or without cavity formation, in which the tissues are put under marked tension and the compensation necessary for healing cannot be made readily, large cavities with thick fibrous walls, and cavities in a greatly contracted lung with displacement of the mediastinum in which further compensation cannot be made Pottenger says that while, according to his ex-

perience, this grouping separates the cases which may be expected to heal under treatment by non-operative measures from those which require operative assistance, it does not represent the manner in which tuberculous patients are generally treated because operative measures are frequently found necessary to meet the evigencies under which the treatment is

Cystic Disease of the Lungs J Am carried out Wood, H G

Congenital cystic degeneration of the lungs is an uncommon disease, but occurs much more frequently Wood reports sixteen He states that with modern diagnostic cases he states that with modern diagnostic methods a roentgenological diagnosis should be than has been suspected made in a high percentage of cases. The greatest made in a figure percentage of cases. The greatest potential danger associated with the condition is secondary pulmonary infection In cases in which there is a bronchial communication an attempt should be made to produce complete occlusion as snourd be made to produce complete occusion as such a communication favors advance of the disease In some cases complete extripation of fluid containin some cases complete excipation of none containing cysts has given excellent results. A number of patients who had infected cysts with bronchial communications were greatly benefited by bronchoscopic

aspiration followed by the injection of iodized poppy, aspiration to not by the injection of louized poppyseed oil This treatment should be considered for all seed on Lins treatment should be considered tot and such cases. Diffuse, bilateral cystic degeneration of such cases Dinuse, Dhateral Cysul degeneration of the so called honer comb type is not benefited by any

The Development of Lobectomy and Pneumectomy in Man J Thoracic Surg, 1934, form of treatment Heuer, G J

Rolandus in 1499 and Tulpius in 1624 performed lobectomies in cases in which the lung herniated through wounds in the thoracic wall Between 1836 and 1880, similar operations were performed by

The year 1880 marked the beginning of scientific Torde, Hale, Grinnell, and Richards experimental work on lobectomy and pneumectomy Gluck, Block, and Schmidt began the work on dogs At first they operated without an aseptic technique, with disastrous results Biondi aseptic technique, with disastrous results Biondi in 1882, working first on normal animals and later on animals with lungs infected with tubercle bacili, These early experiments were quickly followed by

the contributions of Murphy (1808), Tiegel (1907), was more successful Friedrick (1907), Robinson (1908), Halsted (1909), Willy Mark Constitutions of Autrino (1908), Halsted (1909), Poblingon (1908) riedrick (1907), Kodinson (1908), Halsted (1909), Willy Meyer (1909), Robinson and Sauerbruch Willy Molgaard and Roysing (1910), Schlesinger (1909), Mollgaard and Schenelmann (1912) Hencitory, Garre (1912). Schenelmann (1912) (1910), Schesinger (1910), Schesinger (1911), Garre (1912), Schepelmann (1913), Henchen (1917), Contractor (1917), Schepelmann (1917), Schepelmann (1917), Schepelmann (1918), Henchen (1918), schen (1914), Giertz (1914), and Kawamura (1914) As the result of their work negative pressure anesthesia was supplanted by positive pressure anesthesia, the high incidence of pleural infection was lowered by the application of the principles of asepsis, successful methods of treating the bronchial stump were developed, alterations in the pulse and heart action after pneumonectomy were investigated ed, and the obliteration of the empty pleural cavity was found to occur through expansion of the remainand lound to occur through expansion of the remaining lung tissue One investigator reported a true compensatory hypertrophy of the remaining lung

Compensatory nypertropny of the remaining lung
Among later workers in this field were Cave,
Dunn, Holman, Reichert, Rienhoff, Andrus, and
the author In the period from 1914 to 1923 new
and more successful methods for closure the bronand more successful methods for closing the bronchal stump were developed. It was found that the main pulmonary vessels could be ligated with little or no alteration in the pulse and blood pressure and only a temporary change in respiration, that undue traction upon the lung during pneumonectomy caused marked irregularity in the cardiac action that, in the dog, pleural effusion did not occur if infection was prevented that the large intrapleural cavity left after pneumonectoms was rapidly obliterated ated, and that the compensatory enlargement of the remaining lung is not a hyperplasia but a simple expansion due largely to dilatation of the atria and the air sacs, other findings of importance were that pneumonectomy will not seriously affect the probable duration of the pneumonectom, will not scriously affect the production of life, that it is followed by definite changes in the alveolar gases and in the blood gases changes in the aiveolar gases and in the pioon gases together with a temporary increase in the red blood cells and the hæmoglobin to increase the oxygencarrying capacity of the blood and an increase occurs in the blood flow and pulse volume to compensate for the temporary decrease in the total long volume.

After such encouraging apperimental findings aur genes began a deliberat attack apon the lang of man However his the syperimentors were perfecting an ideal operation on the normal atomal, the surpouts, operating us man, were confirmated the problems presented by discuss of the lung which gave rise to a prohibility mortiship or senses complications. These problems that the the developing the problems of the the development of the multiple-stags operations, by among others, Pallon. Surem and Graham.

As the result of the extraordinary interest in lobertomy and postsuancetomy in recent years new methods of procedure in both the one-stage and the multiple-stage operation have been developed. In the treatment of tuness of the broads and hung by lobectomy or postsumountcomy the one-stage operation has bettere the operation of choos, multiple-stage procedure in considered to be ac-

minime-stage procedure is considered to be aster. An attempt to visualize I ture progress in this field is hazardous. The trend will inerstably be toward the one-stage operation for brunchlectuses as well as for tumors. Accordingly there is need for further study of bromblectuses to establish new

indications for operative therapy

I D visi William M D.

#### HEADT AND PERICARDITION

Candrado, F. Wounds of the Reart / Contribución al estado de les hendes del comado. Res de carag de Bartalone, 1934, 4. 65

Wounds of the heart throlve the right and left ventricles with about equal frequency. Wounds of the surficies are more apr to cause dangerous themoustage than wounds of the ventralise. Unless the country arteries are division, wounds of the wounds of the country arteries are division, wounds of the wounds of the property of the country of the countr

The results of wounds of the heart way from its and teeth to dushbility so slight that the impure person continues to saft about. The chimal perture of serious wounds as characterised by precording palicy about, marked dyspaces, rapid shallow repipiration, cytomas, a fail in the blood pressure, and a weak, rapid, proggalar, and sometimes input cryptible police. Frequently there is collapse and sometimes loss of consciousness. Bleeching may or may not occur from the wound.

Elemopericardium is suggested by an increased area of cardiac delibers, soft durant heart soushs, cyanosis, blussens of the lips, and marked dyspices Y-ray examination will establish the diagnosis.

Asperation of the percentilum to rehere pressure on the heart may prolong life and the heart can be exposed and sutured. I cardiornhaphy a homeshoeshaped flap including the fourth fifth, and sirth ribe and cartilages and hinged on the lateral side is made. The percardium in opened, close are removed, and the wound in the heart is closed by interropted satures of fine silk with care to avoid the coronary vessels.

The author reports in detail a case in which both ventricions and the interresticients septem were piecred by a stab wound and injury of the left plannel certify and long produced hemothocus and poeumothocus on the left side. The patient have described the state of broachopaeumonia in both longs. A topy aboved that the wounds of the beart had been on postoperative and there had been no postoperative Remonstrate. Writance R Harvers, MID.

#### MUNICIPAL TAXABLE

Coletti, D. A.: Traumatic Laceration of the Disphrages. Hernia of the Stemach and Spison (Lacerators transates del dafazzasa. L'rais delle stomace della radra) Arch sel. de chr. 101. 15 Au

The case reported was that of a man libity-two pears of age also was sharled long distance in an automobile codent. If was unable to all for help and was not discovered until more beem later. On examination, the apper part of the abdomen was expected in the base of the thorat was released and the storaum pushed forward, the intercent paces help abcreased in which, soon on the left than on the right side. The parient sufficed from theme dysponers and absorpt all fight cyanesia Registration was short, superficial, and of the upper control by the patterns of the control type.

Layarotomy disclosed a long learnation in the left disclosed the displanger with hermation of the streamth and spiren but the thoracic cavity. The stomach, which was enemonely disturbed, was partially reduced though its addretion was very difficult was account of the negative presents in the theory. The spiren was rethered to its normal position, active of the wound is the shiphings, which was colored to the stomach, was impossible. The tailed side though any other than consideration of the stomach, was impossible. The tailed side about size lower after the operation.

This was not a true heron as their was on our farmantic hearstron of the dispharage his per stoneous and the dispharagenatic pleans are generally tors also. Darage the war many cases of transmite durpharagenatic hernia were diagnosed by roccupantements which, for embryological reasons, generally come 1 and position and simple general dispharagen to the fact that the second of the position in the dispharage may occur a basic best did thus on the right dispharage per second of the position of the right and produced because the here and for higheritation of the right disk of the dispharage.

Awarer Goes Mouses M D

Charbonnel and Darmaillacq Intercostal Hernia of the Large Intestine of Spontaneous Origin Of the Large intestine of Spontaneous Origin (Hernie intercostale du gros intestin d'origine

cuernie intercostate du 6103 internal au By the term "intercostal hernia" the authors mean the passage of a portion of the contents of the mean the passage of a portion of the contents of the abdominal cavity through an opening in the diaphragm and intercostal muscles As a rule hermize of phragm and intercostar muscles as a rule nermic of this type appear a variable length of time after a occur in the anterior region of the last intercostal direct injury of the thoracic wall spaces on the left side, the liver theoretically pre-Spaces on the right side. For the venting such hermation on the right side. venuing such hermation on the right side for the development of an intercostal herma after trauma it development of an intercostal nerma after trauma it is necessary for the diaphragm and intercostal spaces to be injured at the same time Rise and Alquer to be injured at the same time Rise and Aiquier suggested that the pleural cul de-sac, frequently suggested that the pictural cut de-sac, frequency obliterated by adhesions from pleurisy, may play an odinerated by addressons from pictures, may piny an important rôle in the formation of intercostal

The intercostal herma is manifested clinically by a soft, reducible tumor which transmits an impulse when the subject coughs It is usually well borne, herniæ when the subject coughs the patient complains of vague dull but in some cases the patient complains of vague dull

The omentum is incarcerated most frequently and pain and digestive symptoms the left part of the colon next most frequently Much less common is incarceration of the small intestine Incarceration of the stomach is rare

The authors report a case in which there was no history of injury and the hernia was on the right side. They attribute the herniation in this case to They state that for the development of an ntercostal herma on the right side two factors are mercustar nerma on the right side two factors are necessary (1) a lowering of the liver which leaves a space between the convex surface of that organ and space between the convex surface of that organ and the cupola of the diaphragm, and (2) histological

From the case they report they dran the following degeneration of the diaphragm

The apparently spontaneous appearance of a tumefaction on the right thoracic wall in the absence of a history of trauma does not necessarily rule out conclusions the diagnosis of intercostal herma

2 The diagnosis is facilitated by roentgenological 2 The magnosis is racinitated by rochtgenological study of the intestinal tract with the aid of an opaque The treatment of intercostal herma is surgical medium

Surgical Treatment in Fourrington, S. W. Surgical Treatment in Four-teen Cases of Mediastinal or Intrathoracic Perineural Fibroblastoma J. Thoracic Surg, Harrington, S W Perineural Fibroblastoma

The clinical symptoms, surgical treatment, histological findings, and operative results in fourteen tological initings, and operative results in toutient cases of mediastinal and intrathoracic perineural fibroblastoma are summarized and four cases are nurous are summarized and tour cases are reported in detail. The most important factors in reported in decan the most important factors in the surgical treatment are early recognition of the tumor and its immediate surgical removal even if it rumor and its immediate surgical removal even if it causes few symptoms

The most important indicauses lew symptoms the most important more cation for surgical intervention is the possibility of malignant change Even when these tumors remain benign, grave complications may result from pressure on the surrounding structures, particularly the spinal cord, trachea, esophagus, and lungs

The technique of operative removal of these growths depends upon the indications in the pargrowing depends upon the indications in the particular case. The posterior approach is used whenever possible and in all cases in which the growth is in the posterior mediastinum When the tumor is in the lateral wall the incision is made directly over the growth The tumor should be removed in one The attempt should always be made to perform the operation by the extrapleural route, but in most of the cases reviewed, a transpleural operation most of the cases reviewed, a transpicular operation was necessary because of adhesions and the site of the growth The surgical risk is greatly increased the growth by cardiac lesions In the cases reviewed there were two operative deaths, each of which occurred in a case with associated cardiac disease The one pathent in the series who had a malignant tumor died from recurrence two and a half years after operation The eleven patients who had a benign tumor are still completely relieved of their symptoms and free from evidence of recurrence, from one to seven and a half years after the operation

#### SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Schner W. Lat Results of Radical Operation for Inguinal Hernis in the Male (Spectronitate such Radik keperation des macanholess Lentenbreches) Desiche Zinke f Cher. 234, 343 36

Through the after care service of the Basel Clinic t was possible to trace and collect statutes regard lac 75 per cent of all patients he had been operated unon for herma during the years from geo to ago Altogether oas patients were re-examined of hom 87 had had an operation for recurrence and As a primary operation for herms. Of the latter, 55 re operated upon for direct berms and 456 for an indirect herms. There were \$1 convental berner, 15 of which are nearcemented, and 8 strangulated herese 7 of both ere recurrent In addition to the operations for bernis, as appended tomes, 4 operations for anscorele 22 operations for apermatocrie, and as operations for adescended testicle were performed. Of the ,841 cases in which primary operation for herma as done () oog of which the operation was unilateral and or of which it was bilateral) recurrence developed in 56 (3 per cent) and of the 87 cases in which operation was performed for recurrence of herma, another recur rence developed in ( 3 6 per cent). The neadence of recurrence as the same after undateral and bilisteral operations, adocating that the danger of recurrence is not increased by operating on both uses I the 8 cases of incurcerated bernin, in chiding a of recurrent berna, the incidence of recurrence as 16 per cent. This percentage atproximated that in cases I ancomplicated bernia because incarceration is most spt t occur in hernie narrow aperture which are anatomically Invocable types of berms and because, to the Basel Chuse, strangulated beraut re operated upon only by expenenced surreums (# the 81 concenits) hernre, c ere incarcerat d The beence of recurrence in these cases is attributed to the fact that the patterns ere children ad oung men, to all of hom the farmer ere ell developed Renutrences occurred in 6 per cent of the 55 cames of direct

undirect berma.

In the Bassi Clime the Bassini and Girard operative methods are used Other more or less recognised methods re-public et on the method and a second of a case in such the Bassini operation as door, recurrence developed in a per control to the second of a per control to the second operation of a per control to the second operation of the per control to the second operation is designed to the second operation in the secon

hernus and is only a per ent of the 436 cases of

total number. Of 43 cases with deep sentic fuscial suprarrations, recurrence developed is only per cent. This frare disproves the idely accepted theory that suppurations result in a high rate of recurrence. In 20 cases of acrotal hornstores the incolence of recurrence was so per cent. Of 17 retients with broochitis or broochonoeumonia, so ( per cent) developed recurrence In the cases of postoperative pulmonary infarction and infarctionpacumona returnence was prevented by the firm scar formed as a result of the probaged led rest The duration of the bed test averaged eight and three tenths days. The patients with recurrence witte out of bed after an average of seven and four tenths day. The a thor recommends eight days of bed rest for the average patient operated upon for herms and from ten t fourteen days of bad rest for patients ith poor fascire II states that work should not be resumed until from four to fl weeks after the operation. In the reviewed cases in high operation was successful only 30 per cent of the patients were constitutionally inferior whereas in the cases with recurrence t o-thirds of the patients ere constit tionally inferior. The danger of

recurrence increases lith age. Among the late complications in the cases reviewed was atmostiv of the testicle which occurred in 21 cases. In 6 cases it was attributed to a scrotal introductions in cases, to devision of the specialitie cord in 6 cases, t injury of the spermatic artery in case to the Schmieden operation in 6 cases, to an contration for consenital berms and in case to a amultaneous operation for hydrocele with strangulation of the spermatic artery T out; of the patients ith testicular atrophy were operated upon by the Basseri method and 4 by the method of Guard Postoperative elevation of the testicle occurred in 10 cases in which the Bassini operation was performed and in case each in which the Hackenbruch and Girard operations were done. Inquital neuralizadeveloped in 8 cases I out followed the Barriel operation, and in the lurard operation. There ere

no distortances of sexual function
(0/15) petition separated point or a first recurrence,
(1 per cent) had another recurrence of 8 oper
(1 per cent) had a solder recurrence of 8 oper
(2 per cent) had a long set of 1 per cent had a
litter recurrence. It (6 per cent) had a
litter recurrence and of 1 per cent of 1 per
(2 per cent) had a
litter recurrence are of the control of 1 per
(3 per cent) had a little recurrence are of the
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(6 per cent) had a little recurre

second recurrence the average age was fifty years. The chief causes of recurrence are changes in the anatomy of the inguinal region produced by the first operation, a lack of strong normal fasciae, and poor circulation. Of the 87 recurrent hermin reviewed 20 were direct and 67 indirect. Of the former, 25 per cent recurred, while of the latter, only 10 per cent recurred. Of 46 cases in which the Bassim operation was done, recurrence developed in 7 (15 per cent), and of 35 cases in which the Girard operation was done, recurrence developed in 2 (5 7 per cent). Of a cases in which the Hackenbruch operation was performed, recurrence developed in 1 (25 per cent), and of 2 cases in which the Gelpke-Penz operation was done, recurrence developed in 2 (100 per cent).

Fulures may be divided into 2 groups according to their causes. The causes in the first group are the patient's age and constitution, the type and size of the herma, and the anatomical condition of the groin These factors play an important part in recurrence. In the second group the causes are errors in the determination of the indications, the pre-operative preparation, the operative technique, the choice of method, and the after-treatment Failures are always due to one or more of these factors author discusses the individual factors of both groups He agrees with Noctzel that operation for inguinal hernia should not be attempted by inex perienced surgeons, and that before any endogenous or exogenous factor is blamed for failure the re sponsibility of the surgeon for the unsatisfactory result should be ascertained. Of great aid to success ful operation is the Henschen inter-inguinal incision which gives access to both sides Except in children, all hernix may be operated upon under local anxithesia Hæmostasis must be very exact. There is a greater tendency toward hæmatoma formation after the Bassini operation than after the Girard operation In the author's opinion, the suture material is of secondary importance. The knots should be very firmly tied The hermal sac should be removed high up and the stump should always be transplanted Lipomata of the spermatic cord should always be removed The nerves of the inguinal region should be spared as much as possible

Of the 68 recurrences reviewed by the author, 18 (26 4 per cent) appeared after three months, 13 (19 1 per cent), between the third and sixth months, 7 (10 2 per cent), between the sixth and twelfth months, 10 (14 7 per cent), between the first and second years, 5 (7 3 per cent) between the second and fourth years, and 15 (22 per cent) after four years. All of those which developed three months after the operation occurred in manual laborers who

resumed their work too soon

In discussing the choice of operation, the author recommends the Girard and Bassini methods. He recommends the Girard operation especially because in about 700 cases in which it was performed the incidence of recurrence was only 1 i per cent and because it is followed by other unfavorable sequelæ less frequently than the Bassini operation. In

suturing, whenever possible, fasciæ should be approximated only to fascia. In the cases of patients with large herniæ and those of older patients, semicastration is advisable

In conclusion the author states that, instead of adding new operations to the 40 already known, efforts should be made to improve the technique and climinate the sources of error and danger in the old and tried methods

(SCHWEIZER) LEO M ZIMMERMAN, M D

Mentzer, S H Bile Peritonitis Arch Surg, 1934,

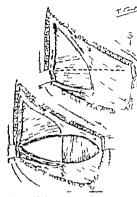
The conflicting chinical and experimental findings regarding the effect of bile peritoritis are reviewed Mentzer emphasizes that clinically, sterile bile is evacuated from the gall bladder into the peritoneal cavity only after trauma. In a review of twenty-four cases of perforated gall bladder he found that infected bile spread in the peritoneal cavity in eight In the remaining sixteen cases only pus exuded The end-results in this group of cases show that infected bile which spreads diffusely over the peritonial cavity causes death unless it is promptly drained by surgical measures. Death is the result of py ogenic rather than chemical peritonitis. Diffuse sterile bile peritoritis is rarely, if ever, fatal If the bile is not encysted it produces ascites which may be Mentzer concludes that bile peritoritis drained produced experimentally in animals is not comparable to bile pentonitis in man

ROBERT ZOLLINGER, M D

Costantini, H, and Marill, R The Advantages of a Large Muscle-Splitting Incision in Surgery of the Flank (Sur les avantages de la dissociation musculaire élargie dans la chirurgie des flancs) Rev de clur, Par, 1934, 53 497

For six years the authors have been using routinely for operations in the flank an enlarged muscle splitting incision, a modification of the incision of McBurnev In discussing it they enumerate the incisions usually employed to expose the lower part of the abdomen and give a brief review of a few of them (the longitudinal incisions of Jalaguier and Schueller and the oblique incisions of Lecene, Kocher, Sheede, Kuster, Koenig, de Guvon, Plan, and Bazz) All of these incisions are unsatisfactory as they give too little exposure or divide important nerves, blood vessels, and muscles

The incision used by the authors is started at the lowest point of the ninth or tenth costal cartilage and curved smoothly downward and inward to reach the midline two thirds of the distance between the umbilicus and the symphysis pubis. It goes through the skin and subcutaneous tissue. The fibers of the external oblique muscle are then separated. The separation is begun at the upper angle of the incision and continued down to the fusion of the aponeurosis of the external oblique muscle with that of the internal oblique and transversalis muscles. The lower leaf is then retracted downward and out-



Above Third step Honesetal separation of the surroad obligate and transversals exceled prologed by section, also transverse, of the astrone about of the rectus model. This actions is used tyrically at a speal distance from the pulse and subdient, but if secondary may be used sights or lower according to the lessess Below fourth step. Exposure of the perm onesis which is about to be unded

ward to expose the internal obline The internal oblique and transversalis muscles are senarated in line with their fibers ( e in transverse direction across the abdomen) the separation being begun near the anterosuperior space of the three (typically ay between the miniscus ad symphysis bali pubis? nd continued til the poneurosia is reached. The latter structure, together with the auterior sheath of the rectus muscle is then divided transversely as continuation of this part of the incision. The reminerum is divided in line with the transverse portion I the iscusion. The rectus muscle is retracted medially bile either the open edge of the luculos is retracted upward or the lower edge to retracted downward, depending on the exposure desired. Closure is effected on anatomical lines by layers, with or without drainage

The a thora claim that this method avoids division of important blood vessels, serves, and muscles gives excellent exposure in the petris and flank, and permits easy closure without the filterbood of hernia formation. They have found it to desirable that they are using it for more and more condutions each year. The steps of the procedure are abown in illustrations. Max M. Zervander. Wh

#### GASTRO-JETESTINAL TRACT

Executey S.1 A Contribution on the Chical Aspects of Tuberculosis of the Stomach (Em Bertrag mr Kludk der Blagtainberkulos) Arci f Hot. Chir. 434, 79 330

T berenkola of the stomach is an inference to see with its sendencied by there and hyperrolay and strophy of the gattic mucosa. Privary toberealous of the stomach occurs only by location by bacteria which are as allowed with the food and become lodged in the stomach. Scotlary tobervious of the stomach may be caused by thocalation by sendlowed or requipitated beth, bedillary embell reaching the stomach by the heart toponous or lymphogenous roste, and spread of the disease to the stomach by continuity or company to the stomach by continuity or continuity or

This author reports case diagnosed as or accomatous referons of the pytone which he cared by operation. A mobile prepylecic trans the size of child's beach of cartilagnose consistency free from adheritors to adjacent tissees, and macroscopically resembling a carcinose was bound. In the patteriole lugament there were several enlarged hypothesis and color. After removal of the unired lymph nodes wider resection of the tennor was done and followed by end to-and masteoposis of the duodenal samp. The correct diagnosis—chronic filtron and alternity to theretakes guartific—was made only on micro-

scopic examination of the specimen.

The author states that when no toberculous hevelvement of their organs can be found properative diagnosis is very difficult if not impossible. Therefore baculti can be demonstrated in the gastric contents only very rarely E as chemical analysis yields no undectoos of tuberculous changes.

The best treatment for cure is radical resection performed as early as possible

(Book) Maretas J Berrent, M D

Schnohr E. A Study on the Cause of Death in High I testinal Obstruction. Observations on Chlorine Urse, and Water Acts cherry Scand 1934, 73 Supp 33

The athor first gives a historical survey of the treprenantal ort that has been done on their the proposal actives to which death is high interfail advertation has been accribed for a set not interfail, infection, short, debt drattion, not chemical changes such in prochargement, sometiment, and altaboate 1 discussing these factors the author emphasizes expectably debt duration, drawing that the factor of the surface expectably debt duration, drawing a had the effect of the administration of hypertoxic subor sol thon

If next report experiments which he carried out on rate t determine bether death in high intestinal obstruction is due to loss of chlorine or water or both, and to ascertain the distribution of chlorine in

animals suffering from experimental ileus

He found that in rats suffering from high intestinal obstruction a considerable quantity of chlorine is lost into the gastro-intestinal tract with resulting hypochloræmia and a definite decrease in the chlorine concentration of the skin, liver, and kidnevs No changes could be found in the muscles, lungs, or spleen. In the brain, the chlorine concentration was increased

On the basis of these findings he states that the time of survival does not depend upon the degree of hypochloræmia and that there is no evidence that death is caused by a change in the chlorine concentration of any particular tissue or of the organism as

a whole

When the organism loses chlorine the serum chlorine is maintained at the expense of the tissues. The urine shows a pronounced chloropenia whether

hypochloræmia is found or not.

The skin and kidneys lose 30 per cent of their initial chlorine content and the liver about 20 per cent. On an average, the quantity lost from the skin equals one half of the entire loss of the organism. There is some indication that as a result of high obstruction, the skin loses its ability to store chlorine.

The rise in the chlorine content of the brain is not specifically associated with intestinal obstruction alone, and there is no indication that it influences the survival of the animal. In the salt treated animals in which a general increase in chlorine took place the increase in concentration was relatively higher in the brain than in the other organs.

The animals treated parenterally with a 10 per cent solution of sodium chloride lost, per unit, the same quantity of chlorine as the non treated animals. However, the channels through which the chlorine was lost differed, the treated animals losing far less through gastric secretion and far more through the kidneys than the non-treated animals. The administration of a 10 per cent solution of sodium chloride had a pronounced diuretic effect.

The chief conclusion drawn from the experiments with hypertonic saline solution is that in high intestinal obstruction the covering of the loss of chlorine is of importance in the prolongation of life

In rats suffering from high intestinal obstruction no relation could be demonstrated between the quantity of fluid lost, the water percentage of the tissues, or the period of survival. Dehydration could not be considered the decisive factor in the causation of death. The administration of hypertonic saline solution did not seem to dehydrate the organism with ileus.

Studies of the urea content of the blood in rats suffering from high intestinal obstruction showed the content to be high. The azotæmia responded to the administration of hypertonic saline solution with a definite decrease. However, as it did not disappear entirely in spite of the chloride intake and as it bore

no relation to the chloride content of the tissues, urine, or blood serum, or to the diuresis, the urea evidently increased to such a degree that it could not be excreted as fast as it was produced

The loss of weight of an animal which occurred during intestinal obstruction was twice as great as that occurring during fasting, partly because of the greater loss of fluids and partly because of the increase in the metabolism. The loss was greatest in the liver and spleen, where it amounted to from 40 to 60 per cent of the original weight.

Since the administration of hypertonic saline solution increased the diuresis and lowered the azotæmia, its beneficial results are to be attributed to an increased excretion of toxins harmful to the organism Schnohr concludes that death in high intestinal obstruction is due to toxemia Harry W Fine, M D

Gioja, E Duodenal Fistulæ and in Particular a Case of Duodenal Fistula as a Late Sequela of Hepaticocholedochotomy and Cholecy stectomy for Stones Duodenorrhaphy with Omentoplasty Cure (Sulie fistole del duodeno ed in particolare sopra un caso di fistola duodenale conseguita tardivamente ad epaticocoledocotomia e colecistectomia per calcoli Duodenorrafia con omentoplastica Guarigione) Archi ital di chir, 1934, 37 277

After a general discussion of the literature on duodenal fistula, Gioja reports a case of such fistula His patient, a woman aged forty four years, was subjected to hepaticocholedochotomy and cholecy stectomy for cholelithiasis. The duodenal fistula developed forty-one days after the operation. As it failed to heal under conservative methods of treatment, Gioja performed a duodenorrhaphy and omentoplasty. Cure resulted.

Gioja classifies the various types of duodenal fistulæ, discusses their diagnosis and prognosis, and describes the conservative methods which have proved successful in their treatment

EUGENE T LEDDY, M D

Larson, L. M., and Nordland, M. Malignant Tumors of the Large Intestine 4nn Surg., 1934, 100 328

The authors review 210 cases of malignant tumor of the large intestine. The neoplasms occurred with about equal frequency in males and females. They were most common in the fifth, sixth, and seventh decades of life. The oldest patient was eighty-four years of age and the youngest fourteen.

The growths were located with the greatest frequency at the extremities of the colon. More than half of them were in the rectum, rectosigmoid, or lower sigmoid and theoretically could be visualized

through the proctoscope or sigmoidoscope

In about half of the cases coming to autopsy the malignant lesion was resectable by surgical methods as no extension or metastasis was found. In about a third, metastases were discovered in the liver or regional glands. Metastases were found in practically every organ in the body. No significant

difference as noted in the incidence of metastasis associated ith lesions in different sites

Obstruction occurred in 8 per cent of the cases Unsurection occurred in a per cent of the cases.

The immediat cause of death as most frequently The immediat cause or occasion as most inequency perforatis or exhauston, but a associated condition such as cardiorenal, vascular or pulmonary cution such as calumirents, vascular or pulmonary disease is pertrophy of the prostate or cute appen checits was a contributory factor lowering the patient resolance

Pol) posts as present in localised or diffuse form In 16 cases. In Il of these cases ther as evidence in to cases and if or these cases one; as evaluate indicating that the management change took place in

McWhorter G L. Acut Di erticulitie of the Cactum; Right-Sided Symptoms, with Directiculitie of the Sigmond. Surg Clin Veril dies SARULL KAUY, M D

McWhorter reports for cases of intestinal diverticulities (th. ) improves on the right aids of the

The first as that of boy nineteen years of ge Ano save a history of the audien onset of abdominal was gave a major) or one assessed outer to exceed the operation The pain was referred t first to the moniton and acven hours later to the lower quadrant of the abseven sours seres to the more quantum or the earth domen on the right side. There as no names, part / cs. the patient had had two previous attacks of as a similar nature about at months part. [hysical a summa mature amount are monator part i mysecus communition revealed marked tenderness and muscle sparm in the lower right quadrant of the blomen Rectal examination as negative through muscle spiriting incinon duclosed, on the outer ade of the cecum, in indurated mass the size of lemon, which as covered by Jackson mem or someon, which as covered by Jackson members and I pendix, high as free and long, as brane ine ppensux, men as me and long, as removed. The mass, the occum as 1 cm from the base of the ppendix Its surface as covered abrin Exposure showed t t be diverticulum completely filled by entrounded by broken down secretic walls. The ED BLEDOUS satisfact opposit the decreased junction The indurated edges of the opening of the di erticulum are satured the lines and catgot, the Jackson memptane was antated over the tier and the

The second case as that of years of gra ho as under medical treatment for pulmonary t berculous. This patient had suffered for three ceds from cobedy pams in the right lower quadrant of the belomen and omiting after the distribute of the property of comments when the regeration or room an area examination received ende of the abdomen. It exploration through right rectas lactaton, the gall bladder as found normal recuss accuson, the gain outdoor as found normal.

The prench as long of moderated congested, and contained the feedballs in its human. The ppendix as imputated and the atomp invaginated centimeters from the poendix, in the lateral

all of the carron hard round mass as found

This proved to be a small diverticalum completely Tan proven to be a small divertication conjugately filled by a feechib 5 cm in dismeter. Following nemoval of the discarring limit the edders of the obsaudance of th removal or the investmental the outer or the opening and as were invaginated with a mich policering one an outer catgut suture. The patient made a good The third case was that of man fifty-one year

the tours take was take or man nitt-one ) odd a hose chief complaint was the onset of moderal ly selecte betu ju the jowes appointed one week ba-out a none russ combraint a sea rus omet or monetal ty severe pain in the source authorized one area pre viously and occasional vomiting outing on me as days. Examination disclosed marked muscle space with nightity over the entire lower part of the b with figurity over the cuttle sower part of the domen on the right side. Rectal examination at negative The findings suggested cut negative The findings suggested cut ppendicuts probably complicated by pentonitis Under con serve tree treatment to the time symptoms graun-ally abated. Later X-ray examination showed make cek the symptoms gradubje quanticity of the removed and description around must e diverticing or the aigment and describing town. The fourth case reported was that of man sixty Ax years of at bose chief complaint paus in the lower right quadrant of the bitmen and our the execution quantum of the summer and court ing over period of three ecks. The leucocyte count was 7,500 Examination of the abdomes count was 7,000 a vammation of tar announce revealed a large swelling in the right loser quadrant in prep finishing sortings are pearly on balbation are affect over a description The mass extended dos under Poupart Hyament ato the thigh As messon over the mass on the thigh evacuated large mount of pur The tract extended into the iliz force After several days a here amount of faces as discharged through the opening onto the thigh. The wound healed slow h A roentgen examination made later revealed neithple di erticula in the descending ad signoid per tions of the colon. The patient has remained ell for

In the discussion of these cases M Whorter says that the frequency of diverticula of the intestinal tract is difficult t determine from routine atopales In the large box of diverticula occur most often in the argument and the descending portion. Diverticular re classified as congenital and equired, true ad false A true intestinal diverticulum presents II layers of the intestinal all I the false divertices lum the musculars is absent Diverticula of the colon re timbuted t increased tension fifus the humen of the bowel associated ith consupation and muscular calmon, ad diverticula occurring in the small intestine along the mesentery t the blood vessels together th traction

Inflammation and perforation may occu in diverticule as in Ppendicits, but in such complete. tions in di erticulum localisatio is more likely t occur than in airmlar involvement of the ppendix and the virulence of the infection is not so great as in the latter. In the acute stage, perforations abould be not red, feculities removed, abscesses dra ned, nd the di erticulum removed if fearble 1 the chronic condition malignancy may be regressed. If affecture is present, resection ma be necessary ad should be done before becrue formation occurs

KIND VELUD

Invagination of a Haustrum of the Cæcum (L'invaginazione haustra cecale) Angeli, A

Invagination of a haustrum of the cacum or partial invagination of the walls of the execum was pirtial invagination of the want of the Cacoum was although it first described by Kylovsky in 1925, although it others been been specified by others previously nrst described by Kylovsky in 1925, although it observed by others previously must have been observed by others previously seven cases have been recorded in the literature The author reports a case which he operated upon The diagnosis has never been made during life. In seven cases a diagnosis of acute appendicitis and in one case a diagnosis of deocacal invagination was one case a diagnosis of neocaecar invagination was made. The author gives brief abstracts of the case made the author gives blief abstracts of the cases the reports in the literature. In all of the cases, the reports in the interactive the first, second, or third invagination occurred in the first, second, or third

There are symptoms which should permit a haustrum, counting from the fundus diagnosis in the first stage of the condition when symptoms of pseudo occlusion predominate over symptoms of pseudo occusion predominate over those of inflammation. This period varies in length from week to year. from weeks to years

The patient complains of from weeks to years the patient complains of intermittent pain in the abdomen, particularly on the right side, frequent nausea and vomiting, transitory fever, and irregularity in evacuation of the bowels. In the outbody the bowels In the author's case the latter consisted of alternate periods of constipation and diarrhea The picture in this stage suggests ileocæcal invagination rather than appendictis If the condition vagination rather than appendicus of the condition is suspected at this time the diagnosis can be con firmed by roentgen examination None of the cases reviewed were diagnosed in this way as none of the patients came for treatment until the second stage of the disease when the signs were those of acute inflammation necessitating an emergency operation

The condition is doubtless caused by increased virulence of the bacterial flora of the involved part of the intestine As a rule the treatment consists of simple disinvagination of the haustrum and closure of the abdomen If necessary, appendectomy and AUDREY GOSS MORGAN, M D

cæcopexy may be performed

# Diverticula of the Vermiform Appendix Bril J Surg, 1934, 22 88 Edwards, H C

The reported incidence of diverticula of the appendix ranges from 0.26 to 0.53 per cent. Such diverticula have no distinct clinical characteristics They are found on routine pathological examination of appendices removed at operation for acute apor appendices removed at operation for acute appendictis. Rarely, as in two cases cited by the author, they can be visualized by X-rav examina-

Edward s discussion of the pathogenesis of ap Edward's discussion of the pathogenesis of appendiceal diverticula is based on the pathological "There are two examination of nine specimens" types of diverticula (1) hernial pouches of mucous examination of nine specimens cypes of diversions (1) nermal pouches of mucous membrane forced through a gap in the muscle coat, and (2) distanced posters of mucous membrane and (3) distanced posters of mucous membranes. memorane forceu inrough a gap in the muscle coat, and (2) distended pockets of mucous membrane and (2) distended pockets of macous memorane over which the muscularis will eventually atrophy so over which the muscularis will eventually arrophy so that a complete diverticulum, visible from the pertoneal aspect is formed." In all of the specific perioneal aspect is formed. mens examined the wall of the appendix showed

inflammatory changes The absence of such changes innaminatory changes The absence of such changes in the walls of the diverticula leads the author to the in the wans of the diverticula leads the author to the conclusion that they are a contributory factor in the Chronic inflammation formation of diverticula formation by causing contributes to diverticula formation by causing partial obstruction of the lumen of the appendix and formation of diverticula nealness and persistent spasm of the muscular coat The most common site of diverticula is along the

concavity of the appendix, but association with per-

In the majority of the specimens examined the forating blood vessels is not striking muscle coats were thicker than normal The author muscie coats were unicker than normal the author believes that this thickening may be due to contraction of the muscle with fraction in contraction traction of the muscle with fixation in contraction, traction of the muscle with fixation in contraction, hypertrophy of the muscle, and inflammatory in the muscle, and inflammatory is coded a Most important, Edwards believes, is spasm of the longitudinal muscle throwing the spasm of the longitudinal muscle. mucous membrane into folds Spasm of circular muscle obliterates the lumen, bringing mucous membranes in opposition. The opposing mucous muscles of the composition of the opposition of surfaces pass into gaps formed by the passage of blood vessels. In this way the author explains obliteration of the lumen of the appendix Following such obliteration there is increased pressure distal to the obstruction, causing pouching of the mucous membrane which subsequently becomes first a herniation and finally a true diverticulum

Appendiceal diverticula may therefore be due to passive distention or irregular muscular action Predisposing causes are the presence of gaps in the muscular coats through which the vessels enter and muscular coats and an muscular coat as the result of

In conclusion Edwards says that it is impossible to diagnose diverticula of the appendix before operachronic inflammation

# D'Aunoy, R, and Fine, A Pseudomyxoma Peritonei of Appendiceal Origin Am J Cancer,

The presence of gelatinous material in the per itoneal cavity was first described in 1884 by Werth itoneal cavity was first described in 1004 by North Werth called the condition 'pseudomy xoma peritonel" and attributed it to the rupture of a pseudo mucinous cyst of the ovary with resulting implantation of the cyst contents on the peritoneal The postmortem findings in a case of pseudomucinous cyst of appendiceal origin were first reported by Fraenkel in 1901 This condition is rare In a review of the literature the authors were able to find the reports of only ninety authentic anic to min the reports of om, mine, added the cases The single case found in the records of the Charity Hospital of Louisiana is reported as follows The patient was a colored woman forty seven

years of age who was operated upon for umbilical The hernial sac contained omentum and gelatinous material, and the abdominal cavity was completely filled with the gelatinous material Death occurred forty days later At autopsy, the abdomen was found to contain free fluid in addition audulinen was jouing to contain free natur in addition to the jelly-like material. The appendix and creal head formed a conglomerate mass consisting of a wall of fibron tissue encloding a cavity containing purlean field and a large quantity of gratitions material. The displargem was pushed up by the griaticous material to the level of the third in The grit was partially obstructed for s/f ft prunmal to the leococcal velve. In this pursuant to such barry admit the index finger. The pathological diagnosis was newdom/non-neetfuned of prevadens unifed.

Pseudontyzoma peritonel is not a disease in itself It may develop from such conditions as overlan crytedenomats, intestinal discribula, mucocries of the appendix, and retroperitonesi cystadenomata. and may occur in the course of a recognized malie-In the case reported by the authors the appendices origin of the growth was proved by the fact that the invinimatous material was mesent in th cavity and the wall of the appendicual abecess but powhere the The condition was evidently of long standing as symptoms of chronic obstruction were present at the time of the examination. This supports the theory that the grossth is comparatively benien and that death is usually due to obstruction of the intestinal tract. The opinion is expressed that the majority of such tumors are cystadenomata

fore W Neres, M.D.

Vosiciar F. My Experiences with High Rectal Amputation (Melas Erlahrangen unt der hohra Rectamasputation) & T. g. destrick Ger f. Chr. Berlin, qui

In combatton carcinoms of the rectum \ oekker has performed high amoutation more and more often, bether the carcanoms was somewhat higher or lower Him alm was gradually to arrive at uni form operation with which he and his assistants could become familiar. The advantages, flered by standardization of the operation are an exact techplace, greater safety and the saving of time. The operation is simple. I the tirst stage, agmost colost my is done and in the second, the main operation, the lower portion of the rect in including the anys, is removed. The chief disadvantage of the operation is to high primary mortality. In the author' earlier cases it ranged bet een y and 4 per cept, but in his later cases it has been loner. In thirteen cases us huch Voelcker performed combased rectum exterpation in the last four years there were two deaths, a mortably of 5 per cent

The statistic interestabilities in the first stays is sufficiently and made through an uncase on the left side. The operability of the excusions having been determined, the effects loop is closed and dropped back. The state operation is done bout cript days later in the patient in high freeder ordering position. A median uncator is followed by theretion of the bowel firms above downward, by at four of the easier in the measurement, and blant dissection of the bowel firms after down and is possible to the first part of the contract of the one and as possible to the contract of the one and as possible to the contract of the one and as possible to the contract of the one and as possible to the contract of the one and as possible to the contract of the one and as possible to the contract of the one and as possible to the contract of the contract of the one and as possible to the contract of the contra

The patient is then turned on his abloscen and the bowel removed from below II is then turned back and the peritoneum and abdominal wall are cheek and the peritoneum and abdominal wall are cheek carefully. In a patie of its loconversience, the three fold turning of the patient is preferred by the subset of two-fold turning became exact surners of the peritoneum is possible only after the bowel has been completely removed and in suboferity essential.

Before the operation the natural same is dosed by pursesting senture. By the procedure described the entire bowed is removed as a closed contition us in deagerous, infectious contents are prevented from extering the wound. The abdominal contiloced tightly and the search wound is draked Resection of the search is never becomeny. In secrection of the search is never becomeny. In secrection of the occupy is proficed, while is a oneweren this is unbacensary. Complete homostopic and even this is unbacensary. Complete homostopic and even this is unbacensary. Complete homostopic and the meany relief in the search wound is very inthis purpose as it is safe and saven time. Ligates of the hypographic actory, which the sathop per formed regularly at first, has been eartherly shandoord by him as it is unaccurany.

Of the t o hralifies in totalize's case, one was caused by pulmonary embolism. The other corarrel in a case in hich, during the main operation, as becree was found in the loop of bowel which had been chosed during the periuminary stage. The opertion was interrupted for early of approximate the faction, and four works later was understare usthird stage. At that time the cond was and gramulating. It apparently harbored more danger one organisms than was supercied. The raiset cheef of perhositis. This failure could have been exercised by better technique at the prelimency

operation

The operating time has been materially reduced. In spite of the three changes of the patient's position, the operation requires scarcely more than one hour and sometimes even less.

With regard to the late results the a thor so, only that some of his patients whit him from time t time and gratefully report their well being They all feel quit satisfied with the artificial area.

In three cases, examination of the entirpute be disguest proved surprising as, bore the cacinoma for which the operation as done, it revealed one or more additional cardinosate to existence of which had not been suspected. So milden has called attention to the importance of such facilities.

While his series of cases is not large \ odcker has gained the impression that if a surgeot and he assistants become familiar with the combined highercram exturpation, they \ \ III develop standardized operative procedure which, in spits of its marginals loses much of its fotner terror and danger

(SURLICERS) LEO M. ZODODNIAN, M.D.

### GYNECOLOGY

#### UTERUS

Meigs, J V Prolan in the Treatment of Abnormal Uterine Bleeding New England J Med, 1934, 211 289

In the author's use of prolan in the treatment of abnormal uterine bleeding from 500 to 1,000 rat units are given over a period of ten days. The treatment is administered during the bleeding or begun ten days before the expected time of menstruation. Local reactions occur only occasionally. The response of the bleeding is occasionally extremely rapid, occurring in one or two days, but sometimes is slow, requiring from ten to twenty days. If one treatment is unsuccessful repeated treatments are given. From six to eight series are given

In the cases of eleven patients with a normal menstrual history who began to flow continuously there were seven excellent and four poor results

Of eighteen patients with too frequent menstrual periods, eleven were cured and seven were not benefited

Of seventeen patients who had a continuous flowing after a period of amenorrhoa corresponding to Shaw's Type 1, only eight were benefited The failures could not be explained.

In the cases of thirteen patients with regular but prolonged menstrual periods, there were six excellent

and seven poor results

Of the total fifty-nine patients whose cases are reviewed, more than 54 per cent were benefited. The use of prolan was considered preferable to irradiation or surgery especially as nearly all of the patients were between twenty and forty years of age. The incidence of childbearing was low, suggesting that abnormal bleeding of the types described is most common in women with unused sexual organs. In speculating further regarding this observation the author calls attention to the fact that chronic cystic mastitis, cancer of the breast, cancer of the endometrium, and tumors and cancers of the ovary are more frequent in sterile than in fertile women.

Curettage proved to be of no value in the conditions discussed. The good effect of the prolan treatment lasted for from three to eighteen months Frequently the bleeding recurred after three or four months but responded again to treatment.

A. F LASH, M D

Phaneuf, L E Radium Therapy in Uterine Hæmorrhages of Benign Origin New England J Med, 1934, 211 304

Radium employed in suitable doses and in properly selected cases is a valuable agent in the treatment of uterine hæmorrhages of benign origin. It

finds its greatest field of usefulness in the treatment of severe hæmorrhages occurring near or at the menopause from uten showing no gross macroscopic lesions, such as those occurring in hypertrophy and hyperplasia of the endometrium and uterine fibrosis

In the hæmorrhages of adolescence radium treatment to avoid hysterectomy requires caution and should be used only after medical, endocrinal, and hæmostatic treatment have failed The dose should

be very small

Because of the danger to the products of conception from irradiation, radium should not be used to regulate the menstrual periods or in an attempt to favor pregnancy

Radium is of value for the treatment of small fibromyomata of the interstitual type, especially those occurring in women nearing the menopause

It may be used in conjunction with operations for repair of the cervix and for cystocele and rectocele as it does not in any way interfere with healing

A single application giving an appropriate dose is sufficient to bring on permanent amenorrhoea

If the patients are properly selected the mortality should be nil

Successful treatment of uterine hæmorrhages of benign origin requires only a small amount of radium (0 050 gm) and minimal apparatus

ROLAND S CRON, M D

Smith, F R The Incidence of Vaginal Fistulæ in Patients with Carcinoma of the Cervix. Am J Cancer, 1934, 22 52

The development of a vaginal fistula in carcinoma of the cervix is primarily a manifestation of advance of the disease. The incidence of vaginal fistulæ is twice as high in untreated as in irradiated cases. In cases treated by irradiation the incidence is increased by (1) interstitial irradiation with radon, (2) lack of filtration, (3) repeated treatments, (4) infection, (5) certain structural characteristics of the lesion, and (6) the performance of hysterectomy before the irradiation. Mentioned in order of decreasing frequency, the types of fistulæ are (1) the rectovaginal, (2) the vesicovaginal, and (3) the combined rectovaginal and vesicovaginal

J THORNWELL WITHERSPOON, M D

#### ADNEXAL AND PERIUTERINE CONDITIONS

Kahn, M E, and Norris, S Primary Carcinoma of the Fallopian Tubes Am J Obst & Gyrα, 1934, 28 393

The authors report four cases of primary carcinoma of the fallopian tubes. Two of the patients were only eighteen years old. The authors state that while the importance of inflammation as an etiological factor is disputed, three of their four patients aboved eridence of chreeke inflammation. A clubial disposis is extremely difficult Hope for increasing the frequency of diagnosis lies in keeping the possibility of the condition in mind.

At operation, the leads often simulates chronic

tubal inflammation or tuberculosis. Opening of all tubes and their inspection for papellary growth: t these and their inspection for papellary growth: t the operating table, as advised by Grupa, would ald in the diagnosis and the institution of the proper

surgical trestment

In the cases of onea more than forty years of age a negative curettage with history of irregular blerching or brownish or bloody discharge in suggestif e of 1 bal carcinoma. In such cases the dacus abould be carefully palpated for enlargements.

Montgomery J B., and Farrell J T J The Results of Postoperative X-Ray Therapy in Carcinome of the Orany A Series of Twenty Two Cases. Reliabor 934 3 37

The diagnosis! the trienty it cases reviewed by the authors was proved by hardsognic assumation of removed torse. The diagnosis was adenocarcinoma in foo perplading adenocarcinoma in force papillary cytademocrathoma in fourten, and granolose cell carchoma in one the cases were disked into their histological grades based upon the degree of samplaide as indicated by the central of cell differentiation, wantdoom net aire and hape and nuclear changes. Glacully the cases were classified by Schmitz' method of classifi mg certanomatic of

the cervit.

Rocutgen treatment was started from to 1 four necks after operation. Prior 1 agust, 19 7 master shoes are gr or in a single string at right angles 1 one of three or four pelver ports. The lactoried neck intention 1 or 1 mm from 1910 200 kv filtration with 0 3 mm of copper and 1 mm of shammon, with a similar of 50 cm and ports of 6 or 10 mm. The dosage as the quantity the skin would tolerate given in from three to four days. With the case of the factors cited the crythems does as 10 ms amas After Vagars, or 1 the saturation.

as you ma some After bujest, or the seturation method of Pfaller a employed in the set of three or four ports. Depth-done graphs ere used at the doarge as aneasterd I contigens. I the period from J muany ors, it. A guitt ops, the criterian all was open Sone twigues, 400, it has been foo. I all cases an effort was made to get the maximum irradiation but that thases would follerate, usung four pelves ports. The treatment as given on alternat days, and an intempt was assided theirers depth do not for the order of the control of

serious and was not considered an indication for stopping the treatment. Ten of the patients whose cases, re reviewed had

Ten of the patients whose cases re reviewed had matignancy of Grade low grade of malignancy Of these seven are at: t are dead, nd one cannot be traced. The average length of survival of date of those stull silve has been thirty-eight mostle, while the verage length of survival of those who doe as alt and a stall months. Of the five patients with millignancy of Grade's (Intermediate grade) affect millignancy of Grade's (Intermediate grade) affect of the stall months of the stall analysis of stall and the stall and after after more than six years. The proposaired is the grade of uningmost and the

operability of the t mor

The most frequently encountered tumor was the
papillars cystadenocarcinoma. Of fourtees patients
with a neoplasm of this type, four are still the after
more than five years. The only other patient still
live after five years had gransions ordi curcinous

Ith malamaner of Grade 1

The uthors conclude that irradiation frequently resulted in pulliation of the symptoms and prolongs tion of life East E Barris M.D.

#### MISCELLAREOUS

Serdnkoff M. G., and Lavizkala, M. K.: Blood Transfusion in Certain Gyaecological Conditions (La transfusion sanguae data certains sifections gyaecologicson) Gwet. et al. 914, 39–39.

This rickle is the report of study institute by the Scientific Institute of Moseov for the Protection of Maternity and Infancy. It had been noted that blood transations, while frequently carried out is general surgery as marrier reported 1 is green-logical practice. The a thorn purpose was to determine the indications and contract bodie them the protection of the contract of the

the effect of transfusion pon the recipient. In Russa there appears to be a disalter perfective for the indirect method of transfusion, chefly because the dract method of transfusion, chefly because the dract method is chefully more difficulty and the continue of the co

The I te of transfused blood is the subject of controversy I general t is believed that the length of survival of the crythrocy ten depends entirely pon

the hemolytic index of the recipient

The mechanism of critin of transfused blood is complex. Besides restoring the intervascular presure, the transfused blood has a outsifty referactivating the neuromascular appearatus of the fact. It reduces bornousal deficiency by hereaxing the outsition processes, od, by necess of its sith and albumins, rutes the hermatopoetic functions, glanlitting especially the bone matrin. It side in over coming infection neutralizes toxins and incinents

Death resil in fro i transmision las been minh utel and technique and to channel changes the Prove on congulation der to desire chance the new inventors that and involution between the don't and recibient

The a thore has the follow ink indications for blood the major and the section of the sente and chaomic to the state of th ectific b explace it intenance is or compar to maket her hak to rente and chronic burnlent intections of the alrest of them where (4) defined To le to of apple and that they have 12) (1 dent i levant tim fem cancer (a) pre aperitive Less to broth den salto suspite and (2) but

Chaine as howen to use could I she han increase the fights of the orkanism and B sants extensive a treat intercention with a Incr por the In mine increase it perents bestoletst combications all catalog sport sughave the Consultations. In crees of exchange in often improved the present's condition summently a beaut third out I neme it in Ligetich taling a cacheria and anomia in receiving to the import the resist or of the original regime in the resist or of the original regime.

Marian, G. The Formation of a Continent Lether כחים ביו זיי כווכנ in Noman and the Use of This Operation in Exetrophy of the Bladder The la con number d'un trere e them et le liter me et de n emploi Canet ess Emple servate

Thank is it is it who the style teline frie min bladder the lover vall of which are wi bidly torn during Japos, that the obening afforcal comblete

hernition of the posterior wall of the bladder After closing the tear he reconstructed the urethra hy placing a tubular krift from the vigina in 3 munt like opening formed bets cen the blidder ind the rule rath r long trout. The result of this operation was so excellent that continence and uri nation vere practically normal

performed the operation twelve times Acconstruction of the wrether can be accomplished also by milling a simple tunnel lile opening passes use or majors cound into it. After a time the can't becomes covered with epithelium, can't occume covered with Optimenon The let

is placed in a tunnel made a 1th a trocar

The ne mether formed cith of support of keilt must lew itched for a long time. The pitient should be instructed to pres a bourse at first daily and then or instructed to pass a pointe of their dilutes the firether The arethra formed by the procedures described slightly every three or four weeks

is listent and continent but the continence is patho logical being due to the formation of librous tismic

The author mentions also i ciec in which he time memory new renteralso. After the oberthon around the ne can't unnation and urinary continence cere entirely normal Recently the patient developed a cystite chich is found to be due to i stone in the bludder The author as able to perform 1 excloscopic ex

amin thon and to crush the stone with a lithotrite Marion has used the described method also in the through the new cin-1

treatment of exerrophy of the bladder. He describes and sho s he illustrations his operative technique in a case of exstraphy of the bladder in a little girl and mentions the lev differences in the operation performed for exetrophy of the bladder in males

## OBSTETRICS

# PREGRANCY AND ITS COMPLICATIONS

Brooks, R., Roberts, R. E., Bristow W. R., Vaughan, oze, K., Kopoerra, K. a., Rentow W. K., Vanganan, K., and Others: Discussion on the Physiology and Pathology of the Polyic Joints in Relation and rathering, or the rears: sounds in remarks to Childbearing, Pres. Rey. See Med. Lond

BROOKE stated that the sacro-fliac joint of the DROUGE BURIES that the task sales were found or the female, unlike that of the male, undergoes a rapid facrosse in mobility from puberty to the age of thanks this hasts. Licensury increases its morphly further the range of movement at full term being increased two and a half times After parturition the joint slowly returns t normal in bout three months. There ppears t be some relation between the involuntary changes in the uterus and those in the ligaments of the secro-line joint, delay in return to regardents of the secto-mar, beaut, octay at return a major in order to the sector of the sector t stormes in our strapounts communing with summer delay in the other. Brooks advocates exercises in the prone position for young females to conserve the movement of the sacro that joints for the child-

ROBERTS reported measurements of the polyle joints of bestment and non-backment account by K joints or pregnant and manufactured women by a ray examination. These showed that the sympleysis publs definitely increases in width during pregnancy more in multipare than in beginners and the turns ( normal some time after partirition turns a manual some one and parturnion of further percelable widening was noted during par turition. The secro like point shows, alight facrosses is sadily during becomes and after barterinos na wouth during preguency and actor parturnion raturns almost to normal. These changes in the symrecurs amost to norms. These changes in the tary movement t the sacro illac joint

Batteriow stated that melposture and particularly the lordosts which occurs in pregnancy are responsithe for much of the back pain during and after pregnancy In this exaggirated lordons the sacram pectures more portrontal and the imposecial joint more vertical, thus increasing the potential of sudden train upon the joint. In the antenatal care the train apost too peant an the amendate care too

special corner Bristow advocates the Goldthwalt special conset primary anyonates are condunwate space. H stated that, after delivery, posteral training should be begun as soon as possible. T mobile to the special conductive training special condu the points fully and produce the full extension of the hip joint which is necessary for correction of the tilt of the pelvis, formble manipulation under anesthesia may be required. Arthrodesis of the sacro disc joint should be the lest resort

VAUGRAN called attention to the increase in the distance between the behad tuberoutles and the widening of the subpubic angle produced by the sequenting position. She stated that she had delivered several women in this position

Roy discussed the change in the size of the trans-Active measurement of the belaje of the automatic of the aut verse measurement or the pervise outset in values positions and demonstrated that when the peties passions and communication only and addocted use on her side with the thighs fiered and addocted the diameter of the outlet is considerably increased HOURT S ACKER, JR., M.D.

Glacchil, N Active Expansion of the Uterns Ac cons, or Active aspansance or the vice as or coording to Signessi and its importance in the coronary to avantous one its importance or the Envisions of Preferency (L'expanses active de physician la français of the Français of the physician of the français of the français of colors of the français of the français

The active expansion of the pregnant terms demonstrated by Stament constitutes the bash of centomerates oy Stament commutes the team to new theories regarding the physiology of preparcy The author pupil of Stament, reviews his preceptor's views on utero-ovarian physiology and the tonicokinetic activity of the uterus. Two cycles are described, that of the non-pregnant and that of the pregnant woman Each cycle has four phrase In pregram women court tythe may your princes the non-pregrant state that first phase is from the the suspense of folicies to ovalation (five or six days) the second, from ovulation to corpus interm for mation (t manatrual period from corpus luteum formation ( or three days) the third, the prethe beginning of menstructio (from ten to twelve the organizer or mentioned period of mentionation (app) and the fourth, the period of mentionation and postmenstrasi recommended (approximately ton (aya) In pregnancy the first to phases are identical with the first two in the non pregnant secures were one may two in the interpretation the third phase is the preparacy phase with duration of approximately two numbers and cighty days, and or approximately two measures and dearly days, the fourth phase is the postparrum phase with duration of peroximately forty days During these possess outsiness round consciousness sussesses are properly to be to hormonal influences acting through or daily doe to memorial innuciase acting decoupants in close harmony with the servous mechanism. The on come mermany with the mervous mechanism and first and third phases are characterized by vascular congestion, and the accord and fourth by vasoconstriction These phenomena are not confined to the vascular system, but are participated in by all

Other investigators also have distinguished two different attitudes of the uterine muscle, namely as active or contraction phase, and a passive or relara tion phase Stament claims that even the relexation is not passive phenomenon of inertia but an active phonomenon depending on the vagus in the same way as the contraction depends on the sympathetics distinguishes four attitudes () contraction () decontraction, (s) retraction, and (4) deretrac tion These may be reduced to two () systole (contraction and rotraction) and ( ) director (decontraction and deretraction) These phases soc

ceed each other, with predominance of one or the other according to the phase of utero-ovarian function. Diastole predominates in the first and third phases, and systole in the second and fourth. These observations led to the formulation of the law of predominance and the law of periodicity.

In pregnancy Stament distinguishes two perio-(t) primary periodicity, in which, during dicities the first six months, diastole predominates and during the last three months it diminishes until systolic predominance leads to delivery, (2) secondary periodicity, which consists, in addition to the activity of pregnancy, of the phenomena of the menstrual cycle explained by the fact that the endocrine activity of the ovary is maintained during pregnancy not only by persistence of the corpus luteum but also by periodic maturation without rupture, of many follicles Clinical proofs of this periodicity are seen in the growth of the pregnant uterus, menstrual crises during pregnancy, abortion coincident with the onset of periodic menstrual bleeding, and the occurrence in pregnant women of blood losses at the usual times of menstruation

The intensity of predominance is influenced by multiparity and age, a favorable action being noted up to the fifth pregnancy and the thirty-fifth year Constitutional factors are also of importance Sfameni distinguishes three constitutional types (1) the normogenital (menarche at the thirteenth or fourteenth year, menstruation occurring at twenty eight-day intervals, with a duration of four or five days and a blood loss of from 100 to 200 gm), (2) the hypergenital (menarche at the eleventh year, men struction occurring at twenty day intervals, with a duration of seven or eight days and a blood loss of 500 gm), and (3) the hypogenital (menarche at the fifteenth year, menstruation at thirty day intervals, with a duration of only several hours and a minimal blood loss)

According to Sfameni, menstruation is an epiphenomenon due to degeneration of the corpus luteum resulting from the lack of decidual, placental, and myometrial hormones and changing the pre menstrual endometrium into the menstrual type. The regression of corpus luteum activity gradually determines diminution of the diastolic predominance and accession of the systolic phase during menstruation or delivery. The change from the diastolic to the systolic tonus and vice versa suggests the existence of two antagonistic hormones.

Gracché attempts to prove that active expansion is a property of the uterine musculature just as it is the property of the muscles of the heart, lungs, blood vessels, and intestines, and that therefore expansion of the uterus during pregnancy is not purely a passive phenomenon responding to the pressure of the developing ovum. In support of this contention he cites the fact that during the first months of ectopic pregnancy the uterus develops at approximately the same rate as in intra-uterine pregnancy. Sfameni claims that the increase in the volume of the uterus and the size of its cavity is not due solely to muscular

hypertrophy or vascular congestion, as others have taught, but is a result of motor activity of the uterine musculature influenced by hormonal changes during pregnancy and menstruction. He points out that this enlargement in the first months of pregnancy is asymmetrical, involving the upper more than the lower segments, and at all times is greater than that which would be produced merely by ovular pressure. During the last trimester of pregnancy the lower segment increases more than the upper This reversal is attributed by Sfameni to a predominant attitude of diastole in the upper segment and of systole in the lower segment, the process being reversed at the end of gestation as a result of neurosympathetic changes This active expansion, according to Siameni, creates a negative pressure or vacuum within the uterine cavity

The negative pressure is said to affect the site of fetal development and to play a part in the formation of amniotic fluid. In the latter, two factors are concerned (1) a mechanical factor, the active expansion of the uterus which occurs in three distinct ways, namely, by the force of aspiration, by distention and flattening of the amniotic epithelial cells with a change in their permeability, and by excitation of the amniotic epithelial cells due to the aspiration, and (2) a biological factor, the stimulating action of the hormones which changes the permeability of the amniotic cells

According to Sfameni, placentogenesis is also di rectly concerned in the process of active expansion The formation of the fetal membranes from the chorion lave and the decidur reflexa and of the placenta from the chorion frondosum and the decidua scrotina is the result of (1) active expansion of the uterus, (2) intra-ovular pressure, and (3) intralacunar pressure The combined action of the first two results in the flat shape of the placenta, while the pressure of blood within the lacunæ determines the growth in the area of the organ Alterations of these factors result in marginal insertion of the placenta, due partially to deficiency of intra-ovular pressure and active uterine expansion, and to other placental anomalies such as succenturiate lobe, velamentous placenta, and reniform placenta

Other phenomena of the physiology of pregnancy aside from these involving the uterus are attributed to tonicokinetic alterations of muscular tissues throughout the organism Reductions of capillary pressure are factors in the production of ædema A diastolic predominance of the biliary channels is claimed to cause bilirubinæmia during early pregnancy Varicose veins are attributed to the diastolic status of the venous musculature Constipation is said to result from expansion of the gastro intestinal muscles from hormonic action Giacche attributes all of the maladies of pregnancy commonly classed as toxemias to hormonic imbalance. He states that it is the exuberance of ovarian hormones which brings about the disequilibrium of the sympathetic system, just as their presence in normal quantities determines proper function HAROLD C. MACE, M D

42

#### LABOR AND THE COMPLICATIONS

Cattials, V., and Seydel, E.: A Note on the fath clogical Anatomy and Pathogenesis of Colorana et the Certix Utert During Labor. (Note ser l'encicle pathologique et la pathognie de Parlème du col de l'attra su coun du traval). Gyale et sels 93, 50 f.

The authors observed the occurrence of cervical orders during labor in 95 of 4,505 deliverses at the Houpital Saint Louis during the past fact weren. It therefore occurred in of every 448 deliveries. The authors believe that its incidence is in reality much hilber as when it does not cause dystom it it.

probably not recognized

Two types of cedema are described () the soft or simple and () the hard with rightly. The former which is the more frequent, enough irredwes the naterior cryvical II pass at early the entire intravagnual portion of the curv! Sometimes it is limited it the extends 1 one on the other side. The curve is their, doughty or resistant to the touch, forming large selling beneath the pulse 0 on unspection, this portion is seen to be increased in size, jutting our sheed of the fertal head as a shifty and more of less deep are doplest. Occasionally the posterior life in the conditions of the condition of the conditions of the c

Hard orders is generally less extensive, involving as rule only a portion of the cervits. It is firm to the touch of its consistency resembles that of greaty leather. On supercion it has the appearance of thick, volacious, almost black carde survoyading the fetal head. Its color is deeper than that of soft orders, and the superficial portions in often.

necrotic.
The a there have examined and a soft orderns and 3 of the hard warely. Histological reministion show discontine of the connective times the soft of the connective times the soft of the connective times the soft of the soft of the soft of the posterior lips I one case showed this difference or cept for beener of serous infiltration in the little of the soft of the soft orderns the rapidit more marked difference as noted. The reas of orderns were less of outcomes and the soft of the so

These s types of ordems represe t extremes be t een hich many intermediate types can be recognized both clusically and hiradogonally. They differ only in the degree of dev lopment of the serous in-

filtration or bemorrhage

Man, theories have been dynamed ( explain the pathogenesis of the condition of the basis of infection or uternes merits. The thors reject them as either vague or insufficient. Their helesses that cervical ordens as doe entirely to compression of the cervical between the fetal head and the petrics. In their case, there is the difficulties in engagement due to petric.

contraction, abnormal position of the fetus, or disproportion. They found contracted pelvis or a transverse position of the head in 65 large fetus in 1 a face presentation in 3 brow presentation in 2, and breech and shoulder presentation in case each I t cases the cause of the orderos as not secretained.

The utbors stat that cervical distorts is assocrated most frequently with transverse position of the fetal skall, this being due usually ! difficulties of engagement in a flat pelvis With few exceptions. the cause of cervical ordens is said privic motraction or disproportion. The ordens results from obstruction of the blood and lymph. It relices occurs while the bar of waters is intact or the fetal skull rests bove the superior strait Conspression of the cervix results only after the head exters the perrow pelvis. In the flat pelvis the aterior ho is compressed most often because the defenred stall. lying in the transverse despeter of the injet, present spon the aterior are of the pervis. When the compression is prolonged the ordents is possily of the hard variety which may lead to necrosis and detackment of the anterior lip I generally contracted prives equal compression of the entire cervix leads to ordense of both line and possibly to amoutation of the entire fatravaginal portion of the cervit.

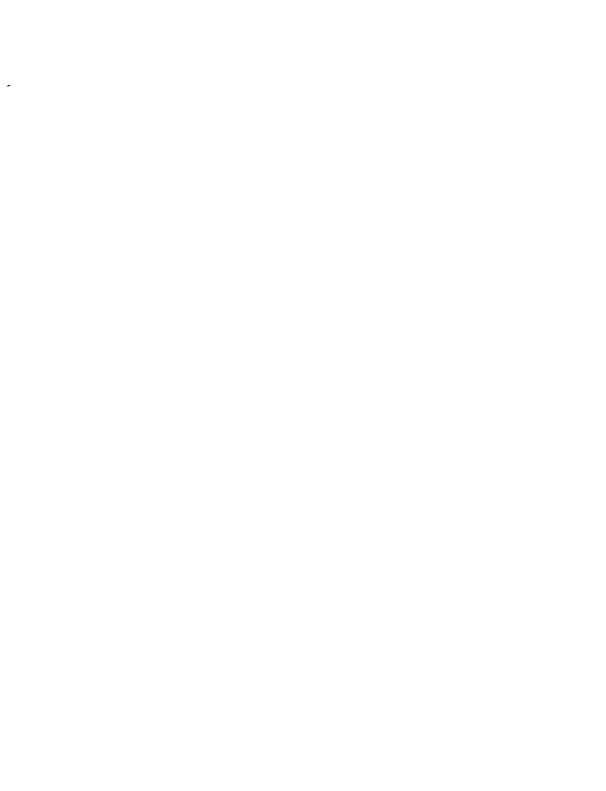
H. MOCD C. MACK, M.D.

Ginglinger A., and Tassovata, 8: A Study Based on Twenty-Four Years of Countrative Low Conseaun Section (Ends are right-quater ancies de chametase base contentance). Gyale di stal 1014, 30: 5.

During the treaty four year period from not to go there as a gradual substitution of the occurrent section for the classical operation and with it change in the indications for the election of the former. In 28,750 deliveries at the University of Strassburg during this period go low sections or performed but only 116 ere recorded in sufficient detail to permit their inclosion in the nuthern discussion. However lie the 13 excluded there was no neutronal mortality.

In the 346 cases in slewed there were 15 material cheaths, material morality of 4,5 per cert. Sind the deaths were ascended to personais. Of these, 5 occurred pose to 47 he in the indications for the operation were farm notified. I the 45 cases in which the operations as performed to the 45 cases in which the operations as performed in the 45 cases in which it was performed in the period there was death from personalities whereas in the 90 cases in which it was performed in the period from condition. Also in the early period there were 3 cases to approach the years 3 cases of approach in which it was a simple period there were 3 cases of approach the years 3 cases of approach in which it was a simple period there were 3 cases of approach the years are 3 cases of approach the years of a which years are 3 cases of approach the years of a which years are 3 cases of approach to 3 cases are 3 cases of approach the years of a which years are 3 cases of approach to 3 cases are 3 cases of approach to 3 cases are 3 cases of approach to 4 cases are 4 cases of a case are 4 cases o

complicated by personian Of the 6 other deaths in the total number of trees, as due to broachopnermons and intraprit in harmorthage light the thore tribut it the one of elser amerithens and believe would not have occurred it spinal amerithens had been employed, and or due to bellar parsh as following spinal samsthesis



# GENITO-URINARY SURGERY

# ADRENAL, RIDNEY AND URETER

Fuchs, F 1 The Relation of the Physiology of the Upper Orbary Tract to Finding to Ungraphy

Opper Urinary a part to extrame and urography, fast delokgia delle vie artherie appeter qualfondamento della magnata per diminazione)

The use of descending or clumfustion prography has without doubt contributed to an undergraphing has a tracer count commons to an incorresponding of the physiology of the upper part of the arhary tract, that h to any the renal perma and the uniter tract, that it to say the renal perms and the numers of the other hand, the results of administration around or early mention of administration of the condition of this part of the numery trust had against tensurous or can part or one unuary tract and clamfind the programs do not accessely give an accessive prices of existing conditions as the factor of the conditions of the conditions as the factor of quitces and muscle (omb cause) so capacity, ox outsides and masce tomos cannot or carcinatus. Changes in discuss cause a change in muscle forms cannes in our so came a course in more mon which affects the images obtained. With the small want street to course ourselve in the use used feedings of elimination around by the filling of the recuments or enumeration arrays pay the mans or the bladder increases during the extendation and it is the coefficients the desire of filling More tances of diarest during the being diete to a mind over one rotation is not known According to be larger to leave the larger than possible to know whether or not changes in the portions to Anny wateries or one through about

by conners in come caused by university the texture factor and the district factor may cast the phonest nature and the district factor easy tract in the same direction or in opposite directions introduces another came of the most performed in most about the contracerusary at most up overse or man and one con concratation of the contrast condition in the sine raries during the course of the crammation in the A certain exposure time is accessive for roent

Amography as the periodic variety in the order motor about 2 cm bat second. We exhaust time of the second that the apparators of a column of tarre returns gives the appearance on a common or mine about 0 cm. long undergoing a autorities of the common of t functional argumentation By [anctional segmentation the other means a difference in expensions to a stage means a manager tract prought bout by changes in discrete Those various control of the control of control of the control of the control of the control of control of the factors of an enter it impossess to and results to be seen adjusted and pathological conditions in the pre-per production of the control of the control flow the degree of the state of th and of the coorditions of quarter is necessary and this contract on once the observations of the contract of t and or the coordinates of marines to receive a service the suppossible as both of these factors wary during the time of examination where rectors area ominates as more on trace rectors area, coming as improvement as more rectors area, coming to

Gilbert, J. B., and Macmillan, E. F. Esting A 2. Sur \$14, too 429 Cubert and Macmillan add two more cases of Cancer of the

princers and assembles and 180 more cause or princers squamous-call carefavors of the read petric to the filty five previously reported, and discuss the

relationship of the condition to infection, kukopiakia ten constitute of the constitution to intection, kintoheria. as prophylactic measure. The treatment indicated is surgical removal and deep X-ray has distinguishment man

Montherlasky A.; Utriancele (De l'artitroche)

1 fand, mid. d chi. 194, pl. (De l'artitroche) The pathogeness of nettereds is still the subject theory many recording to the still the subject theory many according to the still the subject to the subject tof the subject to the subject to the subject to the subject to the dillon is a stricture or attends of the vesical effice of Orange to a servicing or across or the remain sense or the territory but according a some stronger than the presence of a valve babbed the orders, the safety according to the orders of the safety of research in a varie consent the orders, the same commend by the circle with the wall of the bladder or postucing conscious development of the letterming

portion of the arcter is the sole cause or a contribu A execute was found in all of the eight cases to Accessed by the thor In three cases, the arcterocele, Newed by the coor in three cases, the arctireces, the distribution of congenital but the when though outside, was not conscious for the method inflammation or transmitten. Monthers. the perfection of the factor of cities and the factor of cities importance II trains the development of union cale in the presence of a stricture and stress bid cres to the presence or a structure and gives once discussion of the various methods of treating the NATEAN A WOMEN, II D

# STADDER, URTHERA, AND PERSO

Prenements E. J. Technical Nov on the Extraction of Feweria Body from the Basister by the sites per laboration of the present of the sites per laboration of the sites per laboration of the sites of th

A woman came for treatment for what had been A WOMEN COME FOR COMMISSION FOR PARK DATE OF THE COMMISSION OF THE anguous as utonae assurantage and satura time the had introduced seem riped around of six and analysis and the saturation of the saturatio so near introduction scene rapid source of sale soon rapider with an olive tip int. the externs t being the control of the con about abortion Examination about that the would had been introduced into the native and are sound not ocen mirrormen into the unemer and was been tell in the bladder. Although it had been letter duced only three days previously it was beautiful contained with phosphates. It was removed by disting the unclear and need of the blacker with a disting the arrives and next of the baseder was a second with the degree until it could be grasped with the forceps and AUDITY GOS MORGAN, M D

Moreon, A. C., and Semple, J. E. Allindy of the Craftmentship the Harris Technique for FreeZoctomy and J. Urel. \$44,0 asy. The anthors report forty cases in which prostate: tomy was performed by the Harris technique with

two deaths In none of the cases was it necessary to open the bladder for the control of secondary The authors have observed that patients operated upon by the Harris method are much more fit during the first few days after the operation than similar patients operated upon by hemorrhage

the Freyer or Thomson-Walker technique Harris advocates a transverse incision, but the authors employ a vertical incision Bilateral section of the vas is done and the seminal vesicles are washed

It with a 1 00 solution of tarbolic acid prostate 1s. Intra-urethral enucleation of the prostate 1s. out with a 1 60 solution of carbolic acid carried out Hæmorrhage is controlled and the floor of the urethra reconstructed as described by Harris of the dicting reconstitueed as described by training A wrethral catheter is left in place and the bladder a memar carneter is set in place and the bladder is irrigated every hour for the first day. The bladder is either closed tightly or a small rubber suprapubic either closed ugnly of a small rubber supraphole drain is left in When tight closure is made, the

By this method shock and hæmorrhage are suprapubic space is drained lessened and convalescence is shortened THEOPHIL P GRAVER, M D

A Contribution to the Study of ncescul, E A Concubución de Studio Arre Prostatic Calcul (Contributo allo studio della calcolosi prostatica vera) Arch stal di strol, Franceschi, E

A review of the literature reveals that true stones in the prostate are not common The author reports a case in which a prostatic stone was removed

He states that stones may be present in the prostate for many years without producing clinical symptoms even when they are of the racemose type They may develop independently of prostatism or with that condition Often prostatism masks the presence of stones until congestive or infective factors result in mobilization of the stones with the production of symptoms due to irritation Even the production of symptoms due to infraction most accurate X-ray technique may fail to visualize the calculate A-ray recumque may ran to visuanze the calculi, especially when they are situated deeply or are composed almost exclusively of urates When mobilized, prostatic stones may be felt with the

Surgical removal of these stones when they are causing symptoms is accomplished easily by the finger or an exploring sound suprapubic route even when they are situated deep-Suprapulit route even when they are situated deeprepresenting the division between the zone of infiltrated tissue and the normal prostate Occasionally it may be necessary to remove or incise an adenoma Observa-

# tions on Carcinoma of the Prostate Bril J James, T G I, and Matheson, N M simultaneously

The authors report some unusual manifestations of carcinoma of the prostate which they found in a or carcinoma or the prostate which they round in a study of about fifty cases of that condition. In one case the carcinoma spread to the perineum where it case the carcinoma spread to the permeum where it formed an indurated lump the size of a walnut which was continuous with a stony hardness involving the was communicated with a scorpy hardness involving the proximal part of the corpus sponglosum. Another

case presented nodules on the skin of the lower part of the abdomen and a nodule on the forehead. As a or the abdomen and a notine on the torenead risk rule only the regional glands are involved early in rule omy the regional granus are involved early in carcinoma of the prostate, but in one of the cases reviewed involvement of practically every group of glands in the body was found on clinical examination Bone metastases were found in and at autops) home increases the first bony nearly all late cases structure attacked

Mintz, E. R., and Smith, G. G. Autopsy Findings in 100 Cases of Prostatic Cancer New England

In the cases of early carcinoma reviewed no evidence of metastases was found In the more advanced cases extension occurred most rapidly to the pelvic or retropentoneal nodes, next most rapidly to the bladder and seminal vesicles, and least rapidly to the bladder and lymph nodes, Visceral metastases occurred most frequently in the lungs and liver Osseous metastases were found in nearly 50 per cent of the cases

Aberle, S B D, and Jenkins, R H Undescended Testes in Man and Rhesus Monkeys Treated with the Anterior Pituitary-Like Transcript from the Union of Brownson, The World Area with the America Frequency J Am M Ass,

In the treatment of cryptorchidism a third possibility has been presented, namely, the administration of the anterior pituitary-like principle from the urne of pregnancy In most mammals the testes can develop normally only in the scrotum soner undescended testes are placed in the scrotum the better are the chances for normal function Operative procedures have given satisfactory results in from 50 to 60 per cent of cases of cryptorchidism In experiments, reported by the authors, six

monkeys were used, one of which served as a control A total dose of approximately 2,500 rat units of the hormone from the urine of pregnancy was given to each Complete descent of the testes occurred in one and partial descent in four In the cases of partial descent the fascia about the vas deferens and spermatic vessels was found to be short

The authors report also the intramuscular injection of the hormone in the cases of five boys ranging in age from three to thirteen years In the first case discontinuance of the treatment was rendered necessary by a marked febrile reaction after the administration of 150 rat units In the second case there was no change in the position of the testis after the administration of 1,000 rat units, and nausea, vomiting, and pain in the inguinal region occurred after each injection of 100 rat units. In the third case the first injection was followed by fever and gastro-intestinal disturbances The testis, scrotum, and penis increased in size, but there was no change in the position of the testis after the administration of 2,750 rat units In the fourth case the testis descended to a midscrotal position after the administration of 4,525 rat units. In the fifth case,

in which there are two temporary reactions to the at women there are two temporary teachers to the injections, the tentil descended to the low or part of the acroim after the administration of 700 rat

and in the case was there say change in the

Rubication, II. S. The Production of Testicular Descrit with the 33 for Sol bis (Anterior Interior Life) Fraction of Francisco Circumstate Control (Anterior Circumstate Circu percent with the " err sor one (Anterior Pitzifary-Like) Fraction of Prefuncy Urine.

Until relatively receptly there has been no method for the correction of undescended texticle except As aurery has not always been highly successful in lengthening the cord, the problem has been attached from the method standpoint. Schaplro and Engle had laft mores in treating partially underended terticle by the Injection of Aschbern Confect prehomoge and extract of the anterior tobe of the pituisty gland. The successfully treated of the patulary gasan. The successivity treated cases were those in buch the texticles were in the Cases were those in men the textures were in the linguistic case! The author reports case in such that textures were also seemed by the texture case in the texture ca

The patient was a boy ten and half rears old The family history as a poy ten and their years two The family distory as interevant the pattern was born at term an at parts espect on the good delivered the high forceps if act up at the go of tenvered in together the set op at the great free and a half months, stood (the age of sieren the and a main months, according to the age of several months, talked I the go of fifteen months, and moning inner ( the gr or interp moning and alled at the gr of interes months fits Dietic during infancy was noticeably large and the became nurrous insured was nonecessary using and no normal propriatively more obese According ( In insure) to be full only play long games of physical provides and the control pr

his and transford queries of the terms to the terms of the (a) size examination thackned obenits of the private and shoulder-glielle type. The fragress were relating On uchnological examination the cicinatthering the incurrence of absence of the teric friest as assenti because or assentir or in-testicles from the scrottern The penus as extremel mail, oil Won in length, of nearly bursed in American Prom an angua, on many owners the fat of the mong pulse. The texturies could not be he is of the contain being the scritting on the infamily tamps There is a parton of married body quous polymra, noct ma, and structus, a diagnoss of dyspost size, noce the size thereas a coagnosis or dys-trophus disposecratalist and bisteral andescended

tropass unsergranus and oxisteral acoescended (intra-abdonum) featicle as made.

The patient was traited on an endocrine beautiful of the patient was traited on an endocrine beautiful or the patient was traited on an endocrine beautiful or the patient was traited on the patient was traited to the patient was traited page given duly intrammentat infectious of the water soluble fraction of preguader with After six water average the test to pregnance out the insurant successions the left toguese was found in the insurant canel and the next day the right trailers as loyard came and toe acre (as) the right tendor as some the most. After treatment for three cris the the mons Atter treatment for taree cens the enurses stopped. The injections are continued months and then given three times cek After for mostly the left testicle 4s com pletch to the scrotary, the right textice was partially pacter) in the actorsin, the right testage was patterny descended, the perms had normand to 4 cm in length and a land a l OCERTIFICATION TO A THE DESIGNATION OF A CENT OF STORY AND ASSESSED TO A CENT OF STORY ASSESSED.

thor reports also experiments which be consequences against a determinents amon so took took telentra sam echonoments amon so

this hormone treatment on immature almais The ms sections the mean of monature and a make were all younger than forty days, the age it which testicular descent occurs in that species Controls were used for each group. The duration of Controls were used for care group the distance in the free linear ranged from thirteen the early who the treatment pangers from tunition to be carry many at the end of the treatment the similar creatment are days at the end of the treatment the drawle control and epished and epished not the treatment end of the treatment of the control of the cont were wider and persons the treaten warmen come calsus The arminal resides of the treated animals tre found distanced, but no sperme toron ere discovered

## Healing, R. R., The Differential Distracts and nilica, N. H.; The Differences Designates and Treatment of Turnous of the Testicle. J. Univ.

The rapid progress and offavorable prognosis of testing temora mayer certs, qualmost induces of testing to take brokens and managed brokens of Cases of testionis swelling in men bet cen the cases or tentions encume in men oct con one ages of t entry and fifty years, with or kinera a partock of transms of injection marginators spoolid be history or transme or unecross, management source empected. In the presence of malignately the testicle a justice and party and occasionally notified or steer at as targer no men, and occasionary moments or access to soften are parpable. The fumory re-freely morable sortness are purposes: Octubers to theory normalisation of securities 1 security pressure. Hydrorise oc hematocole nay mak the tumor necessitating nematores that testicie can be halfated buth Blood-stated find in the function page. try passwances used in the used vapous modelited ferridog of the opticallymis [ early case the cord is portial or only signify industried A the cure or suring, or only suggests moments or surjective or week of antiboric through the partitions of water or authorite interpretation to the chapture in partition or water or authorite interpretation in the contraction of the chapture in the ch occurs early and there is leter arms forms one of the production of the years of the years of the band faller. And the years of the band faller. is many cases the seminal vesseles and prostate are myol ed

Gummatous, tuberculous, and other acrotal to transmitted a constraints, and other services has frequently been confused with featuraber tenor Occasionally they has been needlessly in mored or valuable time has been feet before the moreti tono of proper treatment. If the the discovery of the sex hormone of the anterior lobe of the painting gland (Frolan A) in the stone of men lib deficulty famor (1 token A) in the state or men in territorial famor correct dargnors may be med consense (ance of the control observes may be made a fercific not only the presence of 1 floor but shall be presented to 1 floor but shall be the type of the peoplesm may be determined before to type of the implants may be determined whose treatment is limit; fed or buopsy is done. The radiotreatment a most true compay a come a construction of the tomor may also be determined in tors the common security of the common security of the common of the common security of the

to the composition of the compos pormone output drops smalley start one assumence part if the district of Lings by exercising a not listing a post tiers; Out in the quantity or from a secretic is not greated the programs is and organic and residually in first Richard with the secretary of the second rather than the secretary of the second rather than the sec therapy ill probably be full. If here are the percepts in promisely on time to non-grown tonetastates, the testide ms be removed and the

#### SURGERY OF THE BONES JOINTS, MUSCLES TENDONS

CONDITIONS OF THE BOXES, JOINTS, MUSCLES, TENDONS, ETC.

France J Acute Outsomyelitis. Brst. M J 924

The author seggests that the localization of an abovers in the boos marrow although creating difficult and reportable direction to far as the local difficult and reportable direction to far as the local as alterny effect as it may be the body's method of a selective difference can from which the factors of immusity may be developed. He argues that general blood-bone infection may have less serious consequences if the infection becomes localized in a bone abovers. As there is growing bedder that the reliculo-endothelial times as one of the most marround of the body the fact that this times is concentrated in the metaphyseal cares of the insign bones explained the frequency of the

localization of bone infection in those areas In discussing the operative treatment of scute ostsomvelitis Fraser states that he is conservative He dyocates the Starr technique though in form even less extensive than that advised by Starr He is disappointed with the gutter operation and is opposed to all of the more radical procedures with wide débridement or subpersortes l'resection. I the bone involved by scute osteomyelitis be makes numerous is in drill boles up t the healthy bone area, using a freshly sterillated drill for each hole to evoid extending the infection. The wound in the personteum and soft tissue is left entirely open and lightly packed with sterile games souked in a solution of House paradia, acriffarine, and potassion citrate The limb is then immobilised in planter for twweeks. At the end of that time a dressing is done under angesthesis, the wound repacked, and plaster another for from four to six weeks. On removal of the plaster the wound is re-examined, any sequestra formed are removed, and an ttempt t partial dosore is made

In fifty-six cases treated by France in the lagt twelve years there were thirteen deaths, mortality of 33 per cent. In the fatal cases there had been a progressive explores which allumetry changed to D<sub>2</sub> mink with excellent shockers in the robuntary suspices, subentaneous tastors, heart, longs, and hards. Rosery C Lovascous, M D

Ozonbon, M. Sciercaing Outsomyelitis (Outsomistic enterosants). Bul y trak. Sec de carag de Bussas Auer 1934. 8 any

The author reports a tumor involving the upper half of the left tible of a boy fourteen years old Roentgesograms disclosed sciencing isosform ledon tolung the cortex. Belows the patient consaited Gambos he had been given intentive autipipallitic treatment in spits of the shames of scrilegical and other childs evidence of spitalis. This treatment had segative results Gambos removed the area of accross surpically. The operation was followed by shouts immediate robel, and i entymonths later the patient was powernity cared, in Gambos opinion, this was a case of the

sciences outcompetits described by Garri. The decase entailly octan in the last years of childhood. It is more frequent in boys than as girth and effects the bowy displaying, especially that of the than. Drew may be multiple leadons. The area of those affected hypertrophies with conditionable the production of the cortex and forms the contract of t

lary canal, in some cases obstructing it completely. The conset of the condition may be instituous as acuts with local pain and clavation of the temperature. The pain is usually again as the condition and at those wile there is an perceibile tumefaction and at those

a slight orders of the soft parts

The rocatgenogram shows uskening and an increase in the density of the duphyms. The ordine of the leasons is smooth and regular. The medulary

cand may be narrowed or obstructed. The proposes is a sciential. The symptoms may subside spontaneously even though normal best fractors may not be obtained. The most substructure may not be obtained. The most incutes the surpreal. The operation may consist in the formation of mobile force through the learn lain the medula or resection of the defected area of home. Will Marrara, M.D. H. Marrara, M.D. H. Marrara, M.D.

Bernardini, R., Rountgen Emmination of Bredie's Chronic Bone Abscess (L'notagne radiolopes sello studio degle assessi cresio delle casa—Brote) Clas also 2014 797

In \$24 Brocke found, after amputating leg, that the operation was uncreasing as the condition was merely bone abscess Thereafter to prevent another such error he spent twenty years in a study of bone abscess and wrote a detailed description of chronic bone becase M ay abscesses to which the term Brothe chronic bone abscess has been apphied do not belong to that classification. Brods described only abscesses which are chrome from the beginning and caused by pus coeti of tiemsated virulence, whereas many of the abscraces described as Brode's abscess in the literature ere abscesses due to acute osteomychtle which had become chronic in the later course of that disease. Brodie stated that the abscesses he described were located chiefly m the metaphyses of the long bones and carned intense interprettent pam a the exacerbations t night

The author reports six abscesses which he thinks were of the Brodic type although they were not all located in the metaphyses. He supplements the case histories with roentgenograms. He believes that the designation "Brodie's abscess" should include all chronic bone abscesses with a slow course which are caused by bacteria of attenuated virulence, whether they are located in the metaphysis or epiphysis or occur beneath the periosteum. He states that these abscesses never affect the marrow for if the process reaches the marrow an acute osteomy clutis develops.

Audrery Goss Morgan, M.D.

Bonola, A The Clinical, Roentgenological, and Histological Picture of Dyschondroplasia (Il quadro clinicao, radiografico ed istologico della discondroplasia) Chir d organi di movimento, 1934, 19 101

In 1809 Ollier described as "dyschondroplasia" a pathological entity characterized by irregularity of development, evolution, and distribution of cartilage in bone. The disease is associated with an abnormal and atypical proliferation of cartilage, both intramedulary and subperiosteal. It occurs most frequently near the epiphyses of the long bones and is usually unilateral. The strictly unilateral type is now referred to as the "Ollier type". Only thirty-three cases of the Ollier type have been recorded.

The pathogenesis of dyschondroplasia is not known Among the many factors to which the disease has been attributed are disturbances of the developing cartilage in utero, dysfunction of the endocrine glands, particularly the thyroid and sex glands, disturbances of the sympathetic and central nervous system, and disturbances of the sympathetic nerve supply to the nutrient artery of the bone

The author reports six cases in detail. The patients were males ranging in age from one to fifteen years. There was no evidence of a hereditary factor, syphilis, tuberculosis, or a change in the sympathetic or central nervous system. One patient was an epileptic. All of the patients were normally nourished and developed in infancy. Dental dystrophy and blue scleræ were common. One patient presented facial asymmetry with the less developed parts on the side of the dyschondroplasia.

The development of the clinical picture may be divided into three stages the initial, the evolutionary, and three gressive. In the initial stage the extremity gradually becomes noticeably shorter. In the lower extremity the shortening becomes clinically evident between the third month and the fourth year, and in the upper extremity between the third and ninth years Often there is no enlargement of the metaphyses and no disturbance of motility Subjective symptoms are absent In this stage X-ray examination is essential for the diagnosis as without it the condition is usually mistaken for rickets. The lesions are most marked and most frequent in the more rapidly growing metaphyses, i.e., the distal at the elbow and the proximal at the knee. In the upper extremity they are often found at the radio-ulnar metaphyses and as a rule only one of the two bones is involved

During the evolutionary stage of the condition the metaphyseal lesion extends and the deformity becomes increased. The difference in growth results in a difference in length. Simultaneously, the mass at the metaphysis increases in size. Both changes are progressive

During the period of involution there is complete arrest of the growth of the extremity. The metaphyseal tumefaction decreases in size as it ossifies, but the deformity and shortening persist.

Complications, which are not infrequent, include pathological fractures, which often follow an insignificant trauma and heal slowly, and the development of associated enchondromata, especially in the bones of the hand

Roentgen examination should include the entire skeletal system As a rule all the metaphyses and epiphyses of one side are involved from the beginning In about 50 per cent of the cases the condition is unilateral In the bilateral cases one side is involved much more than the other. The changes occur most frequently in the metaphyses of the long bones and in cortical bone. In the initial period there are small oval transparent areas surrounded by more compact bone. The cartilaginous bodies are distributed according to the trabecular architecture and the distribution of the blood vessels in the metaphysis. In rare instances the marginal lesions are not bounded by cortical bone and have the appearance of excavations in the bone Gradually, in the period of evolution, confluence of the individual lesions occurs with an increase in the size of the cartilage often associated with complete disappearance of the trabecular markings volutionary changes include calcification in the cartilaginous masses and an intense periosteal osteogenesis which tends to delimit, circumscribe. and replace the newly formed cartilage

The author discusses the histological changes on the basis of biopsy specimens studied during the different stages of the disease. The process consists essentially of a slow proliferation of cartilage with destruction of bone and the later occurrence of calcification and degenerative changes in the cartilage. The healed stage is reached between the ages of twelve and sixteen years, at which time there is complete arrest of growth in the extremity

The treatment is not well developed. No medical cure is known. Corrective shoes may be used early. After healing and arrest of growth various corrective operations may be indicated. Operations to arrest the growth of the normal extremity may be considered early.

To explain the new cartilage growth the author suggests that the cartilage in the epiphyseal region may lose the power to become bone and as the result its growth becomes uncontrolled. The occurrence of the condition during puberty suggests that enchondral ossification may be hindered by an endocrine disturbance.

A Louis Rosi, M D

Maure, M. Artieritis in Hamosphilie. A Contribution on its Pathoganesis, Clinical Aspects, and Trustment (Le autnit excellables. Contribute allolatio patagentico, clinica feel di citis 1844, 13 571.

The author reviews briefly the pathorenesis and chicked picture of hemopoliha. He states that harmarthrods, one of the severe complications of this disease, may develop after the slightest tranna or even apontaneously. It may occur in any joint, but is most common in the knee. Of thirteen cases of bemophilia observed by the author three had articular manifestations. Mauro reports a case of typical hemophilis with severe changes in the soft tistues of the foot in which he operated with a good result. In discussion the surgical treatment of the discuse he emphasizes the value of transferiou and injections of blood serum supplemented by followin, pitultary extract, hypotonic salt solution, and calclum Econo 7 Lenor, M D

Milch, H: Se-Called "Frimary" Tuberculosis of Muscle, An J M Se 134, 25 4

The case reported by the uthor was that of a to woman twenty-righty years old who was admitted to the heapital with a swelling beinde the left line. The patient had been under observation for many years because of Pott a disease with collapse of the lower thorack evertions. About for years ago also developed symptoms in the right laws and a plaster of hint beauting was also have rescaling affiliate of hint beauting was also have rescaling affiliate to their beauting with the patient of hint beauting was also also received by the patients of his patients of the patient

Examination of the left knee revealed, below the medial condyle of the this, a time alliptical semi-clastic swelling to me long from which no fluid was excausted on anjustions. When exclect, the mass was freed t be localized to the inner bend of the partnersembin maricle. No connection between it and the knee joint could be discovered. The operation was followed by unsersativit recovery:

Pathological study of the encared main disclosed the press and microscopic picture of informations (III is everywhere) in the problems (III is everywhere) of the five scars of infercious of missels in which the condition dot set occur by direct erression. In most of the cuses muscles of the extremities were favored. These included the extremelies were favored. These included the quadraneae, pittures, painwards togus, becops, treeps, factors and extrastors of the fingers, and abductors of the property of t

Bravo y Diaz-Cabede, J. Maincine of the Nuvicular Bone of the Wrist (Miscose del hoese mexicides del carpo). Arch. de med. cirug y especial. 2024, 8 aug.

The author reports three cases of maincis of the navicular bone of the wrist, supplementing the histories with rosniganograms. H states that malacts of the write affects chiefly the innets and navicalar booses and the former much some try questly than the latter. It generally develops the bestithy men and is more common in the right than in the left wrist. The nobjects are generally between twenty and thirty years of age and carely younger than seventeen. The majority are manual section. It about to per cent of causes there is a listory of traums. The beston is often caused by filling with the hand in catendoos. It some cause it is caused by frequently repeated slight traumats. Occasionally it begins without known cause.

The first symptom is pain on movement of the joint and on pressure. Pala over the anatomical sunff-box is characteristic. Sometimes percausion of the first and second metacarpals is painful. Lateral pressure is painless. The movements of the joint gradually become limited. There is allahi sucilias over the bone due to reactive cedema around the hone. In the beginning the rousigenogram show normal structure. In some cases, fine fracture line can be seen. Frequently this is apparent only in the radio-ainer projection. After some months gross changes appear in the structure of the bone. There is a diffuse enlargement of the bone which becomes evident only when the involved bone is compared with the bone of the normal wrist. There are alternating clear and opaque zones. Finally a sewhile all or a questrum may be formed. After part of the bone breaks down. Later new bone is tormed, the clear areas disappear, and the bone

takes on normal structure though it is smaller. The course of the disease is very chronic. As the condition generally does not cause very server symptome the bose is rarely extrapted for histological examination. Recently at has been extrapted in certain cases to prevent extracts exhorated schemes. Histological examination is such cases has above a necestric contract area bounded by a connective that care has the such cases the contract of th

bone.

The a ther discusses the various theories with regard t the cause of the discuss. Asset of these has been definitely proved. The fractures may be secondary to the disease rather than the cause of t

Rossignograms of the sevenilar bose are best taken in the devapolance projection with maximum intend fermon of the hand covered the share six, the thomb midght adduction, and the central ray focused on the navicular bose. This possition provents agree positions of other boses which, in the surveying the position of other boses which, in the surveying the position of other boses which, in the surveying the position of other boses which, in the surveying the same times there are the survey in the surveying the same times the surveying the survey in the surveying the surve

In some cases treatment by issunoidization and rest for from air to slight weeks it setficient, but to order to prevent complication by arthritis detorman extingation of the bose is semeclases performed. One of the sutdor's cases was treated secrentially by perforation of the bose. This procedure gives cut to the efficient within its bone opens up rotes for the penetration of newly formed vessels which is necessary for regeneration of the bone, and places the periosteum in contact with the bone marror

Acute Osteomyelitis of the Ribs npetti, il Acute Usteomyentis of the Kibs Caused by Ordinary Pus Cocci (Ulteriore con tributo allo studio dell'osteomichte acuta delle coste da comuni piogeni) Clin clir, 1934, 10 727 Zampetti, M

The author reports 10 cases of acute ostcomy elitis of the ribs which he treated in the last ten years and of the 1103 which he treated in the 125t ten ) cats and summarizes briefly in tabular form 92 cases which he collected from the literature He was able to find concercu from the interacture He attributes the paucity of reports of the condition to the fact that the diagnosis is very difficult and is generally not made until operation is performed. He believes it possible that many mild cases are not diagnosed at all, and that many surgeons do not report their cases, particularly when the original diagnosis was errone-

Roentgen examination does not give characteristic ous and the operation was simple findings It is always difficult and often impossible to demonstrate that a thoracic or lumbar abscess originates from osteomyelitis of the ribs Chemical and biological methods are of little aid in the The abscesses are usually caused by the staphylococcus pyogenes aureus

They occur most frequently in children and in the seventh rib

A sequestrum was formed in 26 of the 92 cases which the author collected from the literature and in

The prognosis is good The mortality is about 10 per cent and always due to sepsis or py emia 4 of his own to cases could be reduced if the diagnosis could be made early

Variations of the Skeleton of the before sepsis begins macner, r variations of the obsercion of the Foot as a Basis of Foot Disorders (Vanetacten) des Fussskelets als Grundlage von Fussbeschwerden) Uhrmacher, F ues russerces are orthop Chir, 1934, 61 180

In cases in which, in spite of the best inserts and careful treatment for weak foot or flat foot there were still disturbances of gait and typical pains lowere sum disturbances of gair and cypical pains to-calized to the medial side of the tarsal navicular bone roentgenography revealed an enlargement of the navicular tuberosity In the cases of children and adolescents this was demonstrated also by palpation The tuberosity was bent into a horn shape and lay posteriorly around the talus Just like a true os thiale externum, the horn shaped navicular bone uniair externum, the norm shaped mayicular bone lifted the tendon of the tibialis posticus from its normal bed and forced it into an almost straight upward course Among 200 cases of foot trouble upward course Among 200 cases of foot trouble due to various infections and bone changes which one to various infections and none changes which were admitted to the author's clinic in 1933 there were 32 cases of unilateral or bilateral os tibiale externum of varying size, 2 cases of os peroneum, and

The author believes the frequency of os tibiale I case of calcaneus secundarius externum to be 16 per cent Whereas formerly the externum to be 10 per cent whereas formerly the treatment was usually conservative, today, es

pecially in the cases of children and adolescents, the pecially in the cases of children and adolescents, the restoration of physiological conditions is accompanied to the conditions of the conditions is accompanied to the conditions of the condit plished by operative means Most of the patients pusned by operative means Most of the patients are in the second and fourth decades of life In and in the Second and router decades of the 111 adolescents, growing pains are frequent According to recent investigations, the os tibiale externum deto recent investigations, the 08 cibinic externam develops not only gradually by growing out of the tendon of the tibialis posticus to form an independent accessory bone, but develops also upon a chondroid or fibrocartilaginous as well as a hyaline cartilaginous or norocartuaginous as wen as a nyanne cartuaginous base in this tendon. This site becomes ossified as the result of the penetration of blood vessels and the formation, in the center, of cortical bone which replaces the peripheral fibrous bone There is never any joint between the navicular bone and the os tibiale externum During the first decade of life the union consists of the tendon of the tibialis posticus union consists of the tendon of the tiorans posticus and later of chondroid or fibrocartilaginous or connective tissue or fusion of the 2 bones

Some orthopedists, among them Latten, have regarded the connecting bridge between the navicular bone and the os tibiale externum as the cause of the symptoms and accordingly have interpreted the pains as growing, dragging, or shearing pains. In pains as growing, gragging, or shearing pains contrast to Francillon who concluded that the pains develop in the "joint" between the navicular bone and the 05 tibiale externum as the result of the weak foot, the author believes that painful metamorphio proliferative processes of the islands of cartilage promerative processes of the islands of Cartnage occur in the region of the joint with increased growth of the organism In the cases reviewed arthritic changes were never found. The tendon of the tibialis posticus, which was usually lifted from its bed, was displaced upward The sustentaculum projected prominently under the medial horn of the navicular bone as a small protuberance. In the dustal portion of the tendon, there were dragging pains which in some cases were associated with a locally circumscribed tendovaginitis Because of the swelling and reddening, an incorrect diagnosis of infected foot was sometimes made As a result of the increasing torsion of the calcaneus, the talus slips under the tendon downward and inward and painful

For relief, the author recommends extirpation of the os tibiale externum or chiselling off of the horn flat-foot develops according to the operative method of Schede An arch shaped skin incision is made over the lower border of the navicular bone and another skin incision along the tendon of the tibialis posticus The tendon sheath is then opened and the aponeurosis of the posticus separated from the os tibiale externum with a thin lamella of bone The superfluous bony parts of the latter and those of the horn are chiselled The tendon sheath of the flexor hallucis is opened for a distance and the tibialis posticus is reintroduced so that it again runs under the sustentacincroduced so that it again tuns under the sustained ulum tali. As a result of the plantar displacement of the aponeurosis, the tibialis posticus acquires the

On completion of the operation the foot is placed in a plaster cast in slight adduction and supination proper tension

Weight-bearing is allowed after from four to six weight-bearing is answer after from four to an weeks. In some cases high insert must be orn for weeks, in some cases angument must be ben for six six months. The after treatment is the same as for contracted flat foot.

The operation is usually done in the second or The operation is usually come in the sections third decade of life. In the cases f small children and occase or me, in one cases a small consumer trillobed locert is usually sufficient, but in those of trianged meets is usually summers, but in cause of older patients an individually suitable fessert must be

wors and, in addition, treatment of the foot is The site of the disturbance is shown by reent genograms and a dra ing

(H Evon LOUIS NECWEL M D

### SURGERY OF THE BOXES, JOINTS, MUSCLES, TEMPORS, ETC.

Milch IL, and Raisman, V Knee Joint day Sury 934, 00 357 Arthrotomy of the

Of 50 cases in which arthrotomy of the knes Joint was done, postoperative infection occurred in 3 (5 per cent) In the cases in which the Lane J () per cont.) an one case in which the technique or a modification thereof was used, the technique or a macana and market as 33 per incidence of postoperative infection was 33 per meconate or postuperature nucleus was 5.5 per cautions were followed it was 4 per cent. With regard t the relation of the expendence of the sur geon to the incidence of postoperative infection it was found that the frequency of infection varied indirectly with the surginal experience, regardless noninective with the surgeon experience, regardless of the technique employed. The authors conclude or the tellance on the Lane technique is illusory and adherence to its ceremonals superfluors

The reviewed cases show also that the duplicate akin preparations are unnecessary the incidence of and interestive injection after the angle preparations being 3 6 per cent whereas after the double becharacions tions it was 7 7 per cent. However the duration of the operation seemed to have some relation to the frequency of postoperative infection. When the operation lasted less than forty minutes the incidence of infection was 3.7 per cent, whereas when the operation lasted over forty minutes it was o per cent. Infection was more frequent in cases in which kongitudinal incusion was used than in those in which a transverse or split patella incision was employed. The more extrasive operations such as synorectomy and repeir of the cricial braments were, of course, followed by infection more frequently then the sample procedures

The authors conclude that the fear of opening the knee joint which is based on the poor results of operations performed many years ago is no longer WILLIAM ARTRUS CLARK, M D

### FRACTURES AND DISLOCATIONS

Murray C. R. The Healing of Fractures Its Influence on the Choice of M thods of Treat ment. And Surg 934, 29 446

ther discusses the modern conception of fracture bearing in its relation t the clinical care of

fractures. The following problems, of academic reaction. The rottowing problems, or accomminity are covered in the bibliography (1) the entitience or non-cristence of specific bone-forming colls or osteoblests (2) the occurrence or near occurrence of metaphasis of connective these cells into ostroblasts "on demand (3) what connective mto outroussia on ormana 137 was connector, these cells, if any are capable of such metaplana (4) whether cell of any kind has an active specific

bart in the process (6) the existence of a specific pre part in the process (o) the constraint of a special jet onescone substance or matrix (7) the presence or beenes of ensyme activity in the mechanism of calcium deposition and (8) the source of any enzyme involved.

In the body of the article Murray decemes ( ) observations sufficiently well supported to be applied clinically () the supportive cyclence, and (3) the influence of these observations on the trest

The observations cited are ( ) the nature of the healing process, (s) variations in the character and amount of healing and the local nature of the factors involved local pathological changes, granulation trane growth, the local source of calciom, and the hydrogen ion concentration of the tissue fluid and

(3) the lack of influence of factors involving the undreidnel as whole The author gives his opinions as to how methods of treatment can flect the various factors cited and

BARRARA R. SIDMON, M. D. Peyton, W.T. Copenharms W. and Arey L. A Quantitative drudy of the Rate of Healing in Boos. II. The Normal Rate of Healing. And Sarg 034, 20 461

The authors report experiments which they carried out on rabbits to establish the normal rate of healing out our recourse to present the surprise rate or manning definitely in order that they might be able to exi-mate the amount of variation produced by factors supposed to influence bone healing. They propose to check their results by another series of experiments in which greater number of factors all be held constant

The experimental method used has been described previously In determining the return of strength in bearing bone, the tennile strength, reastance to tormon, and resistance t bending ere measured The fractures ere produced in the nine of one leg and the nims of the opposite leg was used as con-

The results with regard to each of the factors and the eight of the bone are carefully assiyzed and It was found that, as regards tennile strength,

bealing was complete by approximately thirty days after the fracture, but than the limits of the experiment the broken bone never completely regained tensale strength equal to that of the control bone of the opposite kg. The transamo to torsoo and bending as completely repained by approximatel axty days after the fracture

BARRARA B STERROY, M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Octioner A., and Mahorner H.: The Comparative mer As and standard that the comparative sales of Intravenous Sciencing Substances.

The investigation reported in this article was The investigation reported in this action was continuation of that reported by Ochmer and Gar continuation of that reported by Octanor and Garage and Maborner employed the age in 03 Century and assumer consumer in following sciencing agents their own sodium tourning macroning agency their own tourning to 5 and o per cent solution 5. normation 5 and 6 per cent solution 5 per cent solutions of sodium synocardate 5 3 per cent solutions of sodium hydnocarpate, and a per cent solution of sodium mornium (Searle) and The technique used was the same a that supplyed And terminates used was not matter a trial ampay to in the Investigations by Ochster and Garacie which consisted of the intravances injection of the science mg gent and microscopic study of actions of the we are removed from one helf boar to eight weeks after the miection

The changes occurring in the intime following the injection of sciencing genes consisted of either complete destraction of the intime or less marked changes such as pyknoss, vacuolization, and ex-Cranges were as pyramens, values reserved, and ex-posure of the nucles. Thrombods the not occur in us instance in which there was no destruction of the and the highest incidence of thrombotis (7 4 per cent) occurred in vaim in which (rent solution of society morrhants (Scarie) was incent analysis of motion matriausis (seems) was in-facted. Of the verns treated with 5 per cent sodaum processing, 75 per cent above of some endothers of central processing of the central processing per cent. A sec management on controlled somewhat conand on the various sometimes was as receive 3 per cent sodium morrhuato in benzyl alcohol (Scarie) 7 4 per cent 5 per cent sodium genocardate 50 per cent per cent sodium gynocardate, so per cent cent sodiem genocardate 44 per cent 5 per cent com section gyinecaronic 44 per cent 3 per cent sorthusta (authors own) 33 per cent sodium morthusta (authors own) 33 per cent and 3 per normatic (authors own) 33 per cent and 3 per cent a believe that possibly the reason for the discrepancy pet can the tentra optained tollowing the infection persons and the infection optained tollowing th of their own sections morthusis; nd the results obor each own scenario maximize not no resons ocmorrhusts as that the latter contains benzyl alcohol and the benevi alcohol may enhance the activoring property of sedium morthwate. When the results of the investigation are compared with those of the thus investigation carried out by Ochiner and Garade it as seen that the commercially personned 5 per cent section startistic, 5 per cent sodem synocardate, and I bet cent sodium glacocadate seats all mote account sentiment. I had cent account all controlled to the controlled and 3 per cent section selectate inch was the most effications of the drugs sended beaviously Definite evidence of the ingress of abrovarious various or one organic or auto-blasts int the pemphery of the thrombus was ob-

served after forty-eight hours, and organization with served after forty-eight hours, and organization was recensification seemed to be complete after from its recanalization seemed to be competes arrer from one to fourteen days. The findings in the internal charic to rouriers tays 100 manages in too micross course to so secure variet from Compete occuration of mo-

In conclusion the authors state that of the so soin to concurrent one authors state there or the ab and of Ochanics and Gatalele and 6 included in this report or occasion and customer sizes y comment in two course.

those found to be the most efficacions were 5 per cent sodism morrheste prepared in benny stobol cent notism mormatic preparts in terrary account (Searle) and 5 per cent and am genocircut. None of the investigated solutions had any effect on the of the investigated accurage man any cures or congulation of the blood for a thrombour being dependent upon destruction of the endotheness made

Piccagli, G Transmatic Thrombouts of the Right cagh, G. Transmette Thrombons or the supply Arthury Vein (Trombed de sferio delle sea section destra) Cip I organi di meramata 1914.

A man twenty-one years of age obtained a job in is man exemption years or ago outsides a not in high it was necessary for him to use his arms in producing great force on a lever About ten days promong great rows on a sever arm was larger than the left because of a define swelling of the entire arm and the corresponding shoulder. He then remembered that few days socioer its then remembersu tone are the personally be had suffered an annual strain of the previously be and success an unusual means of im-upper aim. The hand and a large part of the areupper aim the nand and a sarpe part of the same acre intensely Cranotic. The verins of the arm, the absoluber and part of the pper right half of the and any part of the piper rigin nait or the state of the Subjectively the arm left

On physical examination the rm was found in creased in size. The right shoulder had a more conwer outline than the left. The right intractavionar and sprachycular force are obligated The and sopening water than the left. The right tiget assistery toos was awar tracti the act. The tiget veins of the entire extremity shoulder and the saids of the thorax were engaged. There was as ho crosses of heat in the arm. The smalless there was as the crosse of heat in the arm. The swollen these did not of the presents Deep palpation in the upper part of the arm revealed arm cord which was seenswhat tender to pressure and could be followed well hato the and a The arillary lymph nodes were not enlarged terms are samely symbol makes were one consistent. The function of the arm was normal and painters. but somewhat limited by the sensation of heavises There was no evidence of local traums. Under Lacture was no cransact or asked traume. Ourself treatment by rest, cure resulted in forty five de it discussing the stoology of traumatic thrombools.

of the arm the author calls trention to the local or the arm the armies that control to the armie and especially the relations of the antilary vers and its imbutaries in the region of the costocoracoid membrane. He concludes that he

the case reported a sudden forceful muscular contraction may have caused a tearing or the wall of this vessel or the vasa vasorum with resulting injury o the intima

# BLOOD, TRANSFUSION

Quantitative Histological Studies of Jormal and Pathological Bone Var-Nordenson, X G row (Histologische quantitative Studien des nomalen und pathologischen Knochenmarks) H gree,

Intravital methods of examination were introduced into hæmatological technique by Ghedini, Seyfarth, and Arinkin. Arinkin's method is probably the simplest and has the advantage that the puncture can be made several times Following the induction of anæsthesia and with precautions for asepsis, Arinkin punctured the sternum with a thick needle at about the level of the second rib Smears were made from the material obtained and stained in

Nordenson made about 170 punctures by Armthe usual manner kin's method. He reports first his indings in the cases of persons with a normal peripheral blood picture Like Schilling, he found in several subjects 2 relative lymphocytosis in the absence of pathological changes in the bone marrow Uso like Schilling, he found in normal bone marrow an eosinophilia of per cent without a considerable shift. He discusses the reticular cells at some length He believes that, when fully developed, these cells are identical with the Ferrata cells or hæmohistioblasts, and that without doubt the cells of the myeloid system onguizte

In summarizing his findings in normal cases, Nofrom the Ferratz cells denson shows by means of curves that the m eloblasts are never increased and vary between 0 25 and 5 5 per cent, the myelocytes and p-omyelocytes vary between 2 and 21 75 per cent, and the star to ms and voung granulocytes vary between 3 and 27 per cent He states that in normal active bone marrow the sum of the staff and young forms is greater than the sum of the my elocy tes and promy elocy tes. The my elocarrocytes ' are ve' few, there never being more than I to 100 rhie cells reticular cells per 100 white cells averages 17 that of normoblasts ranges from none to that or basephilic no moblasts is 6, and that of no moblasts is

The author next reports his andings in pathological

In secondary animia with and without a leacoevtosis and with a leucopænia the number o m eloblasts in the bone marrow is about the same as in cases in which the blood picture is no mal. In spite of a great change in the le-cocs te count in the perpheral blood (up to 17,600) the number o micloblasts remains constant. The sum of the promyeloc tes and my elocytes varies between 11 75 and 41 25 per cent Wyeloblasts are not found. Proportion blasts occur in the same numbers as under normal

conditions The basophilic commodiasts are conside-ably increased, numbering 35 per 400 leuco. cites. The normoblasts are not increased. Therefore, according to these firstings in the marro- there is an increase in the activity of the ervitropo suc system in secondary anamia

In most cases of le-cocytosis and lenconema "itrout secondary anamia the myelod system of the bone marrow reacts with a marked percentage increase in the invelocites and promiselectes

In pernicious anomia there is an increase in the my eloblasts from 5 up to 12 75 per cent. The Sum of the myelocytes and promyelocytes tress be reen 20 and -6 25 per cent. On the other hand the sim of the joung and star forms is considerab's reduced varying between c 25 and 10 5 per cent.
Megaharyocytes are absent. The reticular cens are increased to \$7, the megaloblasts are age about 67, and the normoblasts are reduced to about 1 per 100 white cells. The cells of the myelo disvs em should tinct evidence of degeneration the contain brains laryokiretic figures The latter are seen also in the er thropo etic stem. Imporement acces liver therapy is endenced in the bone-marro- p chare The degenerative changes rap div disappear and the cells regain their normal appearance. The voices and star forms increase and soon regain their nor mal number

In agranulocytosis the sternal marrow is practically devo d of granuloc tes On the other fond. in grandopania, the marro- is exticordinati- rec in cells and shors considerable activity with a relative increase in the promiselocites and in elo-The enthropo es is of the type seen in secondar anama

In cases of lymphogranulomatosis treated or Xray irradiation the marror is poor in cells but not machive.

In lymphatic leukemia the marron a poor in cells and has the appearance of "Flersch asser myelo d and er thropo euc systems are practicil destro ed, the condition might be described as a esstro ea, the tolling and make he also one all a small services are femiliar to the control of the services are femiliar to the ser and very oung Lymphoolasis wir a light ofte protoplasm "thout gram as are numerous reticular cells are numerous but degenerated. GELLE. HOUDL L. J. J.D.

# Mahiser B The Pathologica-Anatomical Changes in the Organs Following Hamolytic Shock the organs ronowing themoretic street. Teleprice of pain open and concern leverally them der Opane face batter their Stock. Forferer f Elaterance, Leminary of the stock of th

The author reports the findings at autoper in four tash of death occurring after transferent. In two cases an influence of the arteria, wall be blood p gment collections o sanguinens find in the serous caviles o the body and thoroate-on ored adneys phenomena maintre of hamo' ss were found The ep theham of the same tubile samed distroping processes, and necross the loung in the center of the Ever fobules. In the two other cases no evidence of hemolysis was revealed by either macroscools or microscools examination.

The degenerative phenomena in the kidney toboles was apparently related to protein latentation due t denturing of the plasma albumin. The capillaries of the internal organs, particularly those of the liver were overfilled by large numbers of leuropytes.

The presence reviation of the publication automotive the definition in these efficient case, fifty-three admark (does, cats, and rubbite) were examined (does, cats, and rubbite) were examined after death from artificially induced hemoly the shock. The majority aboved as engregament of the remous parties of the secondard organs indicating disturbances in the issert circulatory system. Microscopic examination of the capillaries of the

I my revealed masses of albumin, some of which rec composed of closts and others of blood pinces. However, these foccasines disappeared very rapid, from the blood stream and became beorbed by the lexocytes. When death was delayed for a certain beight of time deprenation of the spithelium of the history tuboles and necross in the centers of the history tuboles and necross in the centers of the history tuboles and necross in the criteria of the history tuboles and necross in the criteria of the history tuboles and necross are set the time to the mechanical obstruction of the result by the products of destruction they are due tubor to the amenic continuous of the organi-

the sceam of the capillaries, or the toxic action of

the returniar cells of the spices and the jumps nodes.

In the discussion of this report, Security (10-cov) said that the pathologics and nomical picture as cases of death due to injury from blood transfession obstruction of the kidney by prounds decomposition products but a far reaching herostands. Make a responsible for the dremanned processes in the

the decomposition products of he-morlobin. In the

prolonged experiments regenerative processes in the

epithenal cells and also in the connectivities were observed. The reaction of the reticulo-cade

thelial system wa evidenced expecially in the pharm-

cytizing action of the Konfer cells of the hver and

the liver were found at autopay and in one case death was doe to an air emboros.

Elinali (Leningrad) sald that the mechanical explanation of hemodytic shock cases to rejected entirely. Is some of his cases the blood essets of the parenchymatous organs showed a Soccratition of blood cells extrestine prinsary arguntation.

liver. In the of his cases old circuit changes in

Malajiev (Lexingrad) and that while the mechanical factor is of great importance in the rabbit, it is of much less importance in other simils and nan. In the dog and in man, flocushion is reversible process better injuries are cussed by introduction phenomena, but at first the warether changes are dominant. (Common HAMER A Statesay, MD.

## SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Coller, F A, and Maddock, W G Water Balance in Surgical Conditions Internat Clin, 1934, 3 190

Water is available to the body from two sources, namely, fluid and solid food. The average adult drinks from 800 to 2,000 c cm of water daily water from food is derived not only from the fluid content of the latter, but also from its combustion Combustion results in the formation of water of oxidation. The water content of the routine daily solid diet is about 1,000 c.cm, and that of a soft diet about 500 c.cm In addition, from 200 to 400 gm of water of oxidation are available. When the calorific value of the diet is inadequate the body tissues are oxidized to the extent necessary to meet the metabolic requirements. Under oxidation the body tissues yield water and water of oxidation exactly as does ingested food. Thus in starvation the water content of body tissues utilized yields from 200 to 300 gm of water daily

Water is excreted in the urine and faces and by vaporization through the skin and lungs. The waste material excreted through the kidneys amounts to from 15 to 50 gm daily. An individual with normal kidneys must pass not less than 500 c cm of urine daily to rid the body of this waste. In renal disease, in which the kidneys cannot concentrate normally, about 1,500 c cm of urine daily are required for this purpose. The average water loss in the faces varies from 50 to 150 c cm per day Vaporization accounts for a loss of from 1,000 to

1,550 gm of water daily

The authors first studied the problem of dehydration attendant on surgical operations in a series of eighteen cases. They found that the water loss due to vomiting was small except in one case. Blood loss in the operating room was generally much greater than estimated by the surgeon. The loss of water through perspiration in the operating room ranged from 40 to 706 gm. In the four-hour post-operative period, the insensible loss of water ranged from 126 to 828 gm.

The chief fact demonstrated by the study was that the period of operation and immediate post-operative recovery is one of dehydration. Under routine conditions the total fluid loss averaged 1,000 c.cm. A little more than 70 per cent of this volume was lost through the skin and lungs, and about 10 per cent was excreted as urine. Elimination of some of the covers in the operating room and on the ether bed reduced the insensible loss of water by one-half and consequently resulted in a greater output of urine.

The authors next studied the water balance dur ing the first days of the postoperative period. They found that in the simple uncomplicated surgical case there was a water loss through vaporization of from 1,000 to 1,500 c cm per day. In septic patients this insensible loss of water amounted to at least 2,000 c.cm per day and in patients with hyperthy roidism it approached 2,000 c cm per day. The authors call attention to the fact that there is no reduction in this insensible loss of fluid even when the general supply of water is low. Even when no water is available for kidney function, the water for this heat-dissipating mechanism will be obtained continuously from the body until no reserve is left and death occurs The kidneys do not take a share of the total supply of available water to make urine. but function with the water that is left over after all other routes of water excretion have had their

Accordingly, the best index of adequacy of the water supply is a urinary output satisfactory both in amount and specific gravity. The authors conclude that in the case of the sick surgical patient the minimal daily amount of urine indicative of a satisfactory supply of water is 1,500 c cm. In the cases of patients who are known to have normal kidney function they endeavor to maintain the specific gravity of the urine below i 105 as an additional check on the adequacy of the intake. They emphasize that in addition to the loss of fluids through vaporization, a great loss may occur through excessive vomiting, diarrhoa, or copious drainage from an intestinal or biliary fistula.

When it is impossible to maintain a satisfactory supply of available water by mouth, the intravenous route is particularly satisfactory in the case of the sick surgical patient. The choice of fluid depends on the substance needed. In combating or preventing simple dehydration the authors use a 5 per cent solution of glucose In cases with continued loss of gastro-intestinal secretions or with a copious inflammatory exudate such as occurs from burned surfaces, it is necessary to supply lost electrolytes as well as lost water In the authors' cases of this type the fluid employed is either normal saline or Ringer's solution, r liter at a time being alternated with 5 per cent glucose Determinations of the non-protein nitrogen, chloride, and carbon dioxide combining power of the blood are made at intervals to follow the return to normal levels

In conclusion the authors state that the use of a 50 per cent glucose solution is advocated only to relieve increased intracranial tension. There have been no complications traceable to the administration of from 200 to 500 c cm of fluid intravenously per hour. Caution should be observed in administration.

tering fluids intra enously t patients who have about or are sho ing segms of cardiac decompensation

The article is followed by an extensive bibliog raphy

Asserts 8 % Torseys M D

Koch, S. L.: Burn Contractures of the Azilla. Surg Cli | Surla Am 1934, 14175

The principles of treatment of born contractures of the stalls act fort by Blish Brown, and Hamn are emphasized by Koch. It is desirable: premote besting of the original flaping in the abortist time and with minimal sear these formation. Table is achieved both the repeated most threat part and the application of Thire-th prairies are soon as a benthe part shifting article is obtained. Such test amounts for a prefer and the application of Thire-th prairies are soon as a benthe part shifting ratios in order to be a search of the application of Thire-th prairies. The staff called of force I prevent contracture may be derived that the start of broads. The simplest method of bataling the desired.

bduction in axiliary contracture is the Z shaped incision. This co be utilized ben broad eb of bealthy kilo extends from the arm t the pide of the chest I requestly such to the kilosistic two fold near the res of the xilia with a small area.

of normal skin between them. This is alway carefully preserved. Been se of some those it may be necessary t place the "Z stypically. Any remaining new surfaces are covered with split grains.

When there is no web and the skin adjacent to the arilla is account, flap with a broad peckels may be skilled into the arilla. The remaining raw surfaces on the chest wall or area may be covered with spit grafts, but if is important that sormal kin be pieced t the site of the greatest tension. If a long flap is

used, Aoch prefers to raise it fa one or two stages before abifulag it.

When the born has favolved theses adjacent to the antila, Koch does not use tubed grafts from a distance. If prefers the split grafts advocated by Blair and Brown. The we of the latter is the shopship

method when the arm in field t the chest without of formation or redundant tierne A relaxing location is naide on the chert all nlightly below the false at litt. As undermining proceeds, belowing becomes possible and short skirt like his prossess up to cover the artillary aper. The remaining raw surface being largely on the chest wall, pressure over

graft can be maintained seitably
The author reports on fourteen cases treated as
described Thom W. Stavanove, J. M.D.

# PHYSICOCHEMICAL, METHODS IN SURGERY

# ROFTIGEROLOGY

The Combination of Roentgen Therapy and Molst Heat Therapy in Lupus Hen the second of a content of a Bulson M 

It see all topics buttering a mental Here and the line to the part of the late. the same of the sa moralist and engineer to the proprehensial rentering to the policy for the district Kingson and the first of the district Kingson and the first Kingson a envis tour tel the profit to the date ments that there is not to be the fresh factor and the strain strains and strains Justice and the fight to best the suit ! In a control per of the temper of the first fort of the period of the fort of now have an intermed and the state of the trade the piece Hadring and to have the treation and the second control to the color to con for a feet and control to the color to con for a feet and color to control to the color to the co character test is not to pink up to settle west too test is a creating that in few for most conference se applied to the intribute force on and teneral can though three wing to be last pain a dir trackours in the marning and to a in the after roon. He mile lest trest gent is a sen for from four h indred to eight hun fred to r The realis of the re hel of treatment are stown b colored

Contribution on the Radiotherape of Seminomata (Certal all ) is talient tale. plate-

Offlind true the de clopment of our present conception of seminamity from the Cork of Pallict and foste in 18 je ind give a me of the controvereis! the second of the histology, climeal characteristics and effect of meta trais of the tumor, etressing particularly the variability of the neo plasms the extreme fragility and high givengen content of the round and polyhedral cells, and the large number of lymphocytes cometimes forming

Seventeen cree, trested by a ray irradiation alone or compined with surgery are reported. Of the follicles seen in the stroms cleven patients who were treated in the period be-

trees to and tota only tro ne still abre two listicuts trested for overious seminous lines end to the and three searches thele east of the note intercedure to be attended in de all In discus my the factors involved in cure of the condition the full it is inclined to itendiate one to one as the party the battent than to the effects of a serition in the cross of male the E 1st and serietize of the tumor, or the surgical a d beatres te-puid ( News ) House M.B.

Albertini A von The Presente of Microcytes in Round Called Streamain is Histological Isi-Round Ceneu Sensitivity of These Tumors to dence of the sensitivity of these fumors to tradfation tendency to in Charletter Striden Educated to this total to the

Be suit a stress course the role if it record no to role note pen a hi taliment diagnosis is des tined to far in the treatment of malignant tun or He refe & becally to the riding of ignal character at reduit timits. He the telebate in detail three a cerum rum is the histolyacul peture of specimen ere of for hoper nate it proble to foretell the The red the timers. The rea by the in the secret is cire toming colled execounts with cells of thedram size of the find characterized purfol all all process structure of the tamor cells and especially the pre-ence of scattered and focally recumulated so called uncrocytes. The latter are a characters the defenerative form of tumor cells which simetimes have a close morphological reemblance to enthrobla to but as a rule are small cells with a crimin by chaped p knotic nucleus simi for to the cell known microcytes in lymphatic tie ne Hovever, the tumore in which they tre found

The presence of the microcytes described, which is are not lempho accomita interpreted is an indication of spontaneous de generation of the neoplasm or a tendence tot and such degeneration must be regarded also as an in diction of marked radiosensibility

Molesworth, I. H. N. Ray Necrosis Med J. Int.

Moles orth divides \ ray necrosis into the acute type due to 1 single overdo e or 2 series of exposures the sum of which amounts to an overdose, and late

In reute necrosis there is a rapid progression through the ordinary stage of erythems to resiculation followed by the separation of a moist, adherent, and grayish green slough The process is accom printed by an acute and persistent burning pain hich resists all local applications. If the dose has not been too great, islands of epithelioma may sur

vive and provide centers from which epithelium may grow to cover the demodel surface when the along in finally separate. The length of time doring which the ulteration premise waves with the depth of the along the process and especially with the area of the sourtien movived. Heating is alow. The resulting cleatth is weak and covered with atmobile epitheium. Later telanghorisate appears, and still later feeth of pigment and hyperteration's patches donot form and the process of the processor and offerance for the processor of the processor and and after a swring fathering the processor in an every cases the along may never be and with grifting may full so that it may be note-say to excite the whole area deeply and cover it sith a tube graft.

Late necrosis may appear from a year to five years after the treatment. It may develop as result of an acute burn which has bested or the too frequent repetition of doses on the same area, per haps over period of years without the production of an erythema. Lets \ ray necrosis never occurs on an area of apparently normal skin. It always supervenes on an area of chronic radiodermatitus Its presented is that of dry dark brown to black canerenous patches which are shrunken below the main surface and look like stained pag skra Many months may clapse before these separate and leave sicers a high require many months to beal or will not beal without plastic surgery. The pain is notable. but not to be compared with the pain caused by acute cloughing induced by recent \ ray burn. The alteration rarely extends further than the depth. of the skin. The extent of the surface involved in the alregation and the chronic radiodermatitis sur rounding the ulter are most important factors in the prognosis. If the area of ulceration is small, the prognosis is good, whereas if the ulter though shallow is in the center of a large area, the outlook is practically hopeless as regards bealing

The author observed necrous of sixfest items only in a case with an extremitive area of chronic demanting over the thorax. H states that too frequently repeated deep X-ray the heavy for carantonas of the forests is believed to be the cross. In the case order three secretaries was see if deep X-ray traditions were given, such of which provided. defaults toom were given, such of which provided, defaults on the contract that the state of the contract that the contract t

from recurrence, but the whole area showed choose. X-ray demantitle and in the region of the containers a deep late short developed and pention the months souls a portion of costal certiliage in to be separated and was removed. The other then shortly behalf the suturbe before that there effects an undoubtadly related to interference with notificing probably due to constructive that off brooks and they will be less frequent when measurement of the closure is improved and too prolonged and too frequently repeated treatments are no longer given

#### MISCRILARBOUS

Paschond, H.: The Treatment of Supparative Partronitis. I troduction to the Dae of Utirs violet Light in Operative Surgary (Trainment des piniomies supparies Introduction à l'emple des situs violais en Chrangis opératoirs). Res. att. de la Saint Ress. 2014, 54 770

The a ther describes rather briefly Hartfacthy method of irreducing a loop of latesties and its measurery with ultraviolet light in case of pensions and stated as a land support and the reports case of his own in which such thruds then was followed by as unusually smooth convoluence. In this treatment it performed convoluence In this treatment is performed consistence in the districted by against one opening on impairable on The abbusiness of the contract of

In cases of promosocic peritoritis Harfield remover: cm of the pas by peritoreal puncture, irradiates it with introviolet light, and then lajects

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Irradiation of the measure; the directive legit
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Max M Zryvances, M D

### MISCELLANEOUS

### CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Lascano, J. C., and Vatenzuela, J. R. The Clinical Syndrome of Short Neck and a Very Rare Malformation of the Heart in a Newborn Infant (Sindrome clinico de cuello corto y muy rara mal formacion cardinca en un recien nacido) Bol 500 de obst y ginec de Buenos Aires, 1934, 13 155

In the case reported the neck was unusually short. the head sitting deeply between the shoulders, which almost touched the ears. All movements of the neck were possible but limited Physical examination of the heart was negative. The child died of pneumonia at the age of three months Postmortem examination of the spine disclosed a third occipital condyle, fusion of the bodies of the third and fourth cervical vertebre, absence of the posterior arch of the atlas, flattening of the laminæ, and nearly complete absence of the intervertebral disks. On examination of the heart only one nuncle was found. This was of large size The left ventricle was larger than normal The right ventricle was relatively very small. The aorta and pulmonary artery were represented by a single vessel originating from both ventricles

WILLIAM R MEEKER, M D

Odasso, A Sacrococcygenl Chordoma (Il cordoma sacro-coccigeo) Arch ital di chir, 1934, 37 505

The author reports a case of sacrococcygeal chordoma in a man sixty years of age. In January, 1931, the patient fell, striking the sacrum on the ground In the autumn of that year he began to have lancinating pains in the sacrum lasting a few seconds and coming on several times during the night During the day he was free from pain About the first of August, 1932, he noticed a swelling in the sacral region Examination disclosed to the right of the midline of the sacrum a tumor the size of an orange which was covered with normal skin. The skin was not adherent to the tumor, but the tumor was adherent to the underlying bone Roentgen examination did not show any erosion or softening of the bone. No enlarged glands or metastases could be demonstrated Operation performed under spinal anæsthesia was followed by healing by first intention. Nine months later the patient returned with a local recurrence of the tumor

Histological examination showed the physaliphore cells described by Virchow as characteristic of chordoma. These are large vacuolated cells containing mucin. There were also smaller polygonal or fusiform cells containing glycogen and fat. It is generally agreed that chordomata originate from aberrant rests of the notochord. These embryonic cells are capable of undergoing metaplasia into

various forms of cells. While histological examination does not show any marked signs of malignancy, these tumors should be classified chinically as malignant as they are very apt to recur after operation. The treatment should therefore be early and radical removal. The tumors are of a connective tissue rather than epithelial type. They generally develop in the fifth or sixth decade of life. In many cases there is a history of trauma

The article has an extensive bibliography
AUDREY GOSS MORGAN, M.D.

Weddell, A. G., and Gale, H. E. D. Changes in the Blood-Sugar Level Associated with Surgical Operations Bril J. Surg., 1934, 22 80

Ingested carbohy drates are absorbed from the intestine in the form of glucose and stored in the liver as glycogen. As required, glycogen is reconverted into glucose and passed into the blood stream to maintain the blood-sugar level at from 80 to 120 mgm per cent. The cycle is influenced by nervous-hormonic factors. The sympathetic-adrenalin mechanism promotes the change of glycogen into sugar, while the yagal insulin mechanism promotes the conversion of sugar into glycogen.

In a study of the blood-sugar levels in nine patients during various phases of major surgical procedures the authors found that half an hour before the operation there was no appreciable rise in the blood sugar, although it is well known that patients in a state of anxiety or apprehension have hypergly comia (sympathetic-adrenalin factor) They therefore conclude that their patients were not unduly apprehensive

. The induction of surgical an esthesia with nitrous oxide, oxygen, and ether produced an increase in the blood sugar level averaging from 20 to 50 mgm per cent (sympathetic adrenalin factor). However, the duration of the anæsthesia did not determine the height of the maximum rise.

Operations near the splanchnic area (solar plexus) caused a greater rise in the blood-sugar level than operations at a distance from that area. The duration of the operation was found to be relatively unimportant in determining the height of the rise in the blood sugar curve.

Patients who appeared comfortable and relatively free from pain (vagal insulin factor) after operation had lower blood sugar levels than those that were uncomfortable or in pain (sympathetic adrenalin factor)

factor)

Rectal drips of glucose and saline solution had no specific effect on the blood-sugar level. On theoretical grounds this is correct because the rate of absorption from the rectum is quite slow (6 gm per hour). However, rectal drips of glucose may be of some

value as - convenient means of feeding the patient after operation,

The thors are facilised to believe that per sistently high postoperative blood argur level is t be expected when the patient is not doing well.

Assure 5 T. Torsory M.D.

#### DUCTLESS GLANDS

Fenner E. A Case of Extrastrainal Choriomeptibe-Borns in a Male with Poelth Anterior Plutiary Lebe Resction (t. cher ein entragranzles Choriomeptibehom bein Minne mit pestirrer Hypophysen wedritsprenaktion) F. kfwl. Exile f.

Park 931 45, 493.

Fessier reports case of extragential choicespethylenous in make which parently had its origin in a retropertionest tersiona. When the testificial retrained in aerial sections no macroscopic nor microscopic pubbological changes were found. The tumor and it metastases beha edblologically, it chorocompulsations in the fermile petitistry bole tensis made with material from the tumor and metastases are positive sometimes and and tensis and continues of the con

I spli of the numerous metastases and the completely intact testicles, no gynecomastia as observed. Therefore the theories of Herdrich Fels, and Mathias that intact testicles do not hinder the development of colontum formation and that the quantitative formation of culositum is dependent

upon the amount of tamor than ere not supported. The theory of Prym that conclusions regreting the testicular or extragential origin of a chornosepathe lionar can be dewas from the localization of the mental; see is not accepted by the author as in his case of debuiltely extragential chornosepatheliona the faceral fixed energy at the same as in cases of fermione-publichoma.

HONER ) LOUB V M MD

#### SURGICAL PATHOLOGY AND DIAGNOSIS

Cutler C. W. J. Errors of Surgical Diagnosis.
A briefs of the Renerds of the First Surgical
Division of the Rowershi Hospital Covering
Period of Three Years. (# 2 U Nr. 44,
15) 8

The uthor stally sed errors us surpical diagnosis reade in period of three years. His purpose as it determins what errors are made most frequently why they are made and how they may best be oded.

test approductio OI (50 cases in hich dispenses of seats periodicitis made the diagnosis sea incurrect in \$15 per cent). Of the latter he employed cred to seet appropriate of chrone presidentitis in 5 externition 4, 1 polititis in 5 personosian in principles evolves the alignosis in 1 cut cholers (this in and miscrillaneous conditions).

In discussing the cases in which acut subjugits was disquested as acuts promobile, Carlor states that the differential disquosis het cen these conditions is sometimes distinct and because of the harants of acuts appendicits the patient must be gf on the benefit of the doobt.

In most of the cases in hich the symptoms are found by the pathologist; to due to chronic material of cute appendicitis, the appendicitis was of the obstructed type with acut code but without cute inflammation in several of them there had been received.

In the 4 cases of enterthis the removed appendix was found normal. There of the patients with entertitis were children. Outler calls attention to the fact that the seriousness of approachial in children requires special taution, and that in cases in which the classical symptoms of sort approachial and lacking fulminating approacheral chiesase may be distor vered at operation.

Of the patients with typhilitis diagnosed as cute ppendicitis, a ere children, ith serous peritositis and estanged mesenteric glands

C ther states that in pneumouls, \ ray examination has greatly reduced the locidence of diagnostic error

Because of the frequency of pel ic conditions other than selmajtin, such as hrantometria, i uting of the pedicle of an ovarian cyst and repture of chocolat cyst of the ovary to female should be operated upon for acute posedicits. Blood first being subjected it a vagosal or rectal examination in the re-leved cases of acute cholecy artis due.

noted as acut appendicitie, a low position of the gall

bladder as responsible for the error Chronic ppendicitis Of 3 cases la blek a diagnosis of chronic appendicitie was made the diagnosis as erroneous in 5 ( 3 per cent) la 3 of the s cases with an neorrect diagnosis the symptoms ere due to pelvic duesse although the findings of vaginal examination were reported normal. Cutler say that in the future the disensels must be breed on more accurat palpation supplemented by hplodol injection and they examination I of the cases reviewed, chronic cholecy status as not diagnosed, ppendictal baces as found and in another Cutier believes that the diagrams of careax arrendicitis will be made less frequently as methods of examining the bilinry system stomach kidseys,

ereters, and privic organs to improved Remaind Of to cases an which disposits ( bernla as made, the diagnosis was incorrect in is per cent). In cases operated upon for inguisal found Ope herme. enlarged rang but no sac ropposed inguinal berms the hydrocele proved t be only hydrocele. In a cases of supposed measurer ated inguital berms there wa hydrocrie of the cord, ad in cases the condition present t be a femoral herms. One stra gulated herala was found t be inguital instead of femoral 1 4 cases of femoral herms the diagnoses wa respectivel femoral adentitis reguntal asless its femoral excess

and peors abecese One supposedly strangulated umbilical hermin was not strangulated, and an incarcerated inguinal hernia was mistaken for varicocele These mistakes emphreize the importance of climi nating the various conditions which may simulate hernis, and particularly of scrutinizing hernic which do not reduce. To guard against negative undings at operation the patient should be made to demonstrate his herma before repair is undertaken unlarged inguinal ring and pain in the groin are not catisfactory criteria of the accessity for repair

Trade dolerythis Of o cases in which a diag nosis of acute cholecustitis was made, it was incor rect in 1 In the latter, the condition was acute

Cleant doices, this Of 101 cases in which a inflammation of a high lying appendix

diagnosis of chronic cholect stitis was made, the diagnosis was incorrect in 13 (6 05 per cent) In 2 of the latter no levions vere found. In another there was a marked gastro enteroptosis. In I case the condition vas an acute suppuritive cholecy stitis running a quiet course In 2 cises, operation re realed a duodenal ulcer and in 1 case cach, chronic pancreatitis, chronic appendicitis, carcinoma of the gall bladder, pelvic peritonits, and tuberculous retroperitone il ly mph nodes impinging on the com mon duct. In 2 cases the exmptoms were due to urm bands of adhesions running across the duode num The mistakes in this group of cases emphasize the importance of making a thorough \ ray examination of the gastro intestinal tract when gall bladder disease is suspected

Calculus in the common duct. Of 13 cases in which a diagnosis of calculus in the common duct was made, it was incorrect in 3 (23 per cent) In 1 of the latter the condition was acute yellow atrophy run

ning a fairly prolonged course, and in 2, the symptoms were due to a stricture of the duct following a

Duolenal alcer Of 64 cases in which a diagnosis of duodenal ulcer was made, it was wrong in S (12 5 per previous operation cent) In 1 of the cases with an erroneous diagnosis the stomach and duodenum were normal. In the 7 others the postoperative diagnosis was chronic ap pendicitis Cutler states that as patients presenting the symptoms of duodenal ulcer are now being thoroughly examined with the roentgen ray and

then subjected to medical treatment over and over again unless obstruction occurs, sewer of them are being operated upon and fet er errors are being

Acute's perforated duo lenal ulcer Of 10 cases with a diagnosis of reutely perforated duodenal ulcer, the diagnosis was incorrect in 6 (31 5 per cent). The mide dire consequences of leaving a perforated ulcer without operation perhaps accounts for the high percentage of error in this group. In 3 cases the condition proved to be acute cholect stitis with stone, in I case, a volvulus of the intestine vith gangrene in i case, a perforated carcinoma of the sigmoid, and in I Therefore cisc, angina or coronary occlusion operation was warranted in 5 of the cases in which the diagnosis 1 75 wrong The Z rry is of great aid in the necessarily hurried diagnosis as a sub diaphragmatic gas bubble is practically pathogno

There were 20 errors of diagnosis in miscellaneous monic of perforation

The total number of cases operated upon was 2,340, the total number of diagnostic errors, 110, and the percentage of error in the total number of conditions cases 46

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# International Abstract of Surgery

Supplementary to

# Surgery, Gynecology and Obstetrics

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# INTERNATIONAL ABSTRACT OF SURGERY

Trbruary, 1935

# ABSTRACTS OF CURRENT LITERATURE

### SURGERY OF THE HEAD AND NECK

#### HEAD

Cid. J. M. An Epidermoldal Glioma of the Scalp G. T. T. T. T. T. des viers calcilide. In J. I. T. v. v. v.

the atterner its acree of to in located between the selly and crain multiplicate the stronged discussion, elected many this little. The structure of the respiration rembled that of exert other tear ectisher is a new rich as the challenged Listoma, the object of the respiration of the treatment of the stronged Listoma, the optimise and tractor is not attended to a fattement of the treatment of the stronged could be proposed to the latter to which it has inged could be the decembed.

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Dechaume M. Localized Hypertrophic Ostelils of the Maxiller Pathogenesis (Octabe hypertrophicate local) e des maxillaires. Censul rations pathogeniques: Press red. Par. 1034, 4–43, 4

The author reports in detail three cases of localized hypertroph of the upper jax. The ages of the patients is ere trients eight thirty four and forty six sears respectively and the duration of the disease ranged from a few months to five years. In each case the hypertrophy appeared clinically to be due to often case the hypertrophy appeared clinically to be due to often cases the hypertrophy appeared clinically to be due to often consisting of a diffuse swelling of the illegiar process. Roentgenograms showed morthing due to alternate areas of ratefaction and condensation, linch y as interpreted as evidence of ostetix fibrosa. Biopsics were made in each case. In two cases, the specimens were sent to two pathologists one of whom diagnosed the condition as a simple

estem and the other as a fibrous of tests closely related to grant cell tumor. In the third case in which the condition cemed clinically to be definitely of an infarmmatory nature the pathologist reported and one under to that can in leontiasis of season besoft he blood recorded only a mild an amia in two cases.

In car i foring these hypertrophic changes in the upper jaw as i whole the author states that the histo-logical changes are not a faciently characteristic to serve as a base of class facilities. Therefore to distinguish between paint cell tumor localised von kecklinghausen's disease leontrisis of seal and hypertrophic of eath of purely inflammatory origin it is received to rely upon chinical signs. The curse except when infection can be definitely established as many changes in the blood and the endocrine organs are hypothecated.

The article contains six roentgenograms and five driving of casts of the eeth indiguis

MULTI DI GROST M D

Di Natale, I — Intraglandular Calculosis of the Submaxillars Gland (La calcole i intra ghiando late della ettomas ellare) — treh ital di el r., 1934–37–337

The author reports two cases of intriglandular calcula of the submaxillars gland and reviews the

literature relating to these concretions

His first case vas that of a man sixty four vers of age who had noted a small painful nodule in the region of the left submaxillary gland for about twenty months. The nodule slot is increased in size. I ollowing the application of alcohol packs over the gland the symptoms gradually subsided. After the initial attack the patient was relatively well until about one month prior to his admission to the clinic when he noted pain and a burning sensation in the region of the left submaxillary gland. The nodular mass in this region had recently again increased in size and its borders had become less distinct.

Physical examination revealed a mass the size of a wain t in the region of the left submarillary giand. The overlying skin was ordematous. The tongue was displaced to the right by protrusion of the mass

int the floor of the mouth

Under local anesthesis, the author resected the entire robustalitary thand. The resected mass was bout the size of home egg and in one point there was calculus the use of a small not. Butological examination of the tracerted fund showed a married infiltration of the grand with round cells and thenber. The tubulearies of the control grand the late. The tubulearies of the grand control grand the small conceptions in addition to cell different

The second case was that of a man thirty four years old who, about one and a ball months before his admission to the clinic, noted small pes-sized nodule in the region of the right sobmanillary gland. This nodule gradually increased to boot the size of a small nut and became slightly pushed especially during manifestion. For few or are does there had

been drynnes of the month

Physical examination disclosed a small, firm, not sized tomor in the region of the right submanilarly gland. The nodule was only slightly movable and not tender. X ray assimination above of irregularly round shadow of bony density in the region of the right submanilarly gland.

Under local amenthesis the author removed the entire submanifary gland. The postoperative course

was unevential

The resected gland contained a small, yellowishwhite nut-sized calculus—small niche within the glandular tissue

Hatological examination revealed evidence of degeneration due t stans secondary to occlusion of the excretory system

From review of the literature on submardilary calcult, the ather concludes that the cause of the tone formation is not known. The calcult have been timbated to climate conditions, thet, and heredity. They occur it all ages. They have been found in an infant of three works and in persons

sixty-nuc years of age

The nathogeness has been ascribed to stask in a long tortuous Wharton a duct, but ligation of this duct in animals does not cause the formation of topes The chemical theory attributes the formstion of the stones to the production of salavary secretion supersaturated with informal salts which are precipitated out of solution. The mechanical theory ascribes it to precipitation of the salarary salts around foreign bodies such as dental tartar, dead spithelial cells, food, and vegetable fibers lodging in the ducts. According to the infective or parasitic theory the calculi develop following infection of the gland Various organisms such as leptotrix buralis, streptococci, staphylococci, paecimoment, blastomycoars, and actinomycoses have been demonstrated in the calcult. The a thor is of the opinion that injection is an important errological factor.

Pathologically the gland containing a chease shows avenue at stage of inflations tion reaght and the mild reaction noted? I the earther's around reater supportation and aderoids of the gland blosscopic examination above an endowanther and prowanther activates with distantion of the convey of cits, destruction of glandslar tissue, and care sive connective-tissue productaration.

As a rule there is only one calculus, but in use cases several result calcular in south statistic throughout the gland, ossailly in the introjunidar, canallouid. The calcular result and result of have integraler serfaces. They vary from graph to yellow or brown. Calcular sightly as well as of graph and measuring 55 cm is length hat there reported. The maximum chromateness has been if cm and the rulednum 8 5 cm. Chemical sandras has shown calcium months, carbonation some

material, magnesium and sodium chloride, one sod

and Iron.

Unble stone in Wharton duct, calcul his he submarillary gland may produce so system to be a long time. As they increase in sin, they as cause dull pain in the region of the inverted pixel. Rarely they may come a decrease in the section stants with resulting depress of the scort or acute retention of suffer due to obstruction of suffer due to obstruction of suffer due to the larger dects. The gland usually become identification of the larger dects. The gland usually become identification of acute and charmle infection of suffer due to the consequent smallest those of acute and charmle infection.

The differential diagnosis of intraglandatir of chies from stones in Wastron due can usually is made on the basis of the history with regard to the occurrence of an scate softway code, estheteintion of Wharton's duct, and roomiges my enumtion. During the process of carbe inflammatics with enlargement of the gland, other inflammatics pleases and tumors in this sera most to raided out.

The treatment inductated is surject received in the entire giand. Although Incison of the pixel with sample removal of the stone has been supported the author befores that this is not advisable to the gland is partly destroyed by the inflammation process, in function is present process, in function is present process, in function is present the process, in function is the state of inflammation that the state of the st

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Threesen, P The Nature of the Elementary and Initial Bodies of Trachoma. And Opid 1914, per

Fallur to produce tractorsa ia bind humas e no ith various types di battern has been percent reported. That: virus may be the cruse of tractors in suggested by () the absence of a known bacteral came, (a) the positive fibrations reported by Noeth, Cocools, at Maiston, and (3) the presence of linber standard Promasal, cryoplasmic inclusions bother in the conjunction spatial epithelial of the conjunctional epithelial or discovery.

The filtration experiments of three groups of investigators indicate that while the agent of trache-

ma is generally not filtrable, the disease may some times be produced by bacteriologically sterile filtrates. It is possible that the usual inactivity of altrates may be due to absorption of the agent by the filter rather than to the large size of the particles. The exteplasmic inclusion bodies of trachoma are basophilic and heterogeneous whereas the inclusions character site of many virus diseases are acid-philic and homogeneous. This difference led to denial that the inclusions of trachoma are of virus origin an objection which has been refuted by more recent investigation.

I detailed study or the nature of the trachoma inclusion and its components indicates that the initial and elementary bodies are stages in the life cycle of a virus which may be the etiological agent of the discree. The business are present in large num bers in the subscute stages of the disease but tru often dure It to demoistrate ri croscopically in the chronic states. They constitute intracellular colomes of the virus. The small inclusion made up of initial bodies is the early place, and the larke inclu son, made up of elementary bodies, is the late phase. By analogy with the phases of inclusion hodies in blennor their and positive oos the elementary bodies should constitute the infectious phase of the disease and the adsorption of the elementary bodies of hacterial filters should explain the usual nonultrability of the trachoma virus. Succe sful filtra tions are possible by the use of graded collodion membranes with suspensions of elementary bodies in high concentration IDUATO S PLATE M D

Adson, A. W., and Benedict, W. I. Hremanglo-Indothelioms of the Orbit. Removal Through a Transcranist Approach. Irch. Opith., 1934, 12-54

Tumors caused by an increase in the sile of normal vessels or the formation of new vessels occur in the orbit as angiomata of various types or variousities with or without a direct arterial communication. If such tumors become pulsatile because of a copious arterial supply or because of juxtaposition to a large artery, they tend to become larger through expansion of the blood spaces and involvement of contiguous tissue.

Exophthalmos is the most frequently observed sign of the presence of an orbital tumor, but in cases of vascular tumors it is of particular significance. The situation of a vascular tumor within the orbit its continement by the bony walls, the volume of blood it contains, and other factors determine the intensity of the pulsation, the rate of expansion or growth of the neoplasm, and the character of the erosion of the bone

Highly vascularized tumors of the orbit result from inflammation or injury or occur spontaneously. These include fibromata, endotheliomata, and lymphangiomata, a relatively benign group. The poor results are due to pressure on the globe and orbit.

From clinical data alone it is sometimes impossible to identify true angiomata and other highly vascu-

Inneed tumors. A copious mixture of arterial blood in the large venous spices may be detected by tests for oxigen and carbon dioxide performed on blood withdrawn through a cannula, a valuable aid in the differential diagnosis of pulsatile tumors. Roentgenograms disclose ero ion of bone, but do not clearly reveal the tough membranes which develop as a protection agains, expansion of the tumor and form important structures that may be utilized in surgical reconstruction after removal of the tumor

On the basis of the principal reasons for the surgical attack the various methods of treating vascular tumors of the orbit may be grouped as follows (1) ligition (2) compression, (3) irradiation, (4) injection, and (5) extirpation. The procedure of choice in a given case depends on numerous factors. A combination of any of the conservative methods may be tried before extirpation is attempted. If surgery is undertal en, the surgeon should be prepared to lighted a carotid afters if necessary and to deal with sudden and copious ha morrhage.

Because of the difficulty of adequately controlling hymorrhage in the deeper parts of the orbit and the impossibility of going beyond the orbital walls to extend the operation as far is may be required, a frontal approach through the evelids does not provide a sufficiently wide assenue for the operative attack. On the basis of previous experience in the treatment of cerebral meningiomata invading the bone and entering the orbit and on the basis of Nafiziger's work on the treatment of exophthalmos, Adson and Benedict concluded that in the case of harmagio endothelioma of the orbit reported in this article it would be feasible to remove the moderately large viscular tumor by the transcrimal approach. This approach proved to be adequate and effective

In conclusion the nuthors state that the ease vith vith the hemangio endothelioma was removed suggests many possibilities for the transcramal approach to vascular and neoplastic legions situated in the retrobulbar space of the orbit

Castrovicjo R Keratoplasta im J Ophih, 1034,

Of the three methods of corneal transplantation—total, partial superficial, and partial penetrating—the last yields the best permanent results. The corneal transplant must be obtained from the same individual or an individual of the same species.

Castroviejo reports on seven unselected cases of leucomatous cornea in which partial penetrating leratoplasts was performed. In some cases the leucoma allows examination of the anterior segment by the usual methods. When the leucoma is too dense for such an examination, anterior and posterior trans illumination will yield information regarding the presence of anterior or posterior synchia. The best results are obtained when the leucoma is not too dense and there is little or no scarring in the surrounding areas.

The technique of the pre operative and postoperative care is described in detail. The corneal transplant and the opening in the corner of the reciplent must correspond in size exactly and traums to the transplant must be avoided as much as nonable. The transplant should be held in place by conjunctival flams

If the corneal irucuma is the only pathological change the conjunctival daps will probably begin to separate and the transplant may be uncovered after two or three days. The conjunctival sutures usually come out from eight days to three weeks

iter the operation

When there is houry scarring of the communities around the comes, a large irridectomy should be done first because of the tendency toward elegenme. Transplants should be taken from empleated ever with unaffected corses which were removed under coneral ascerthesia to prevent the corneal falury that occurs in removal under local aperathesia Corneal transplants from plantomatous eves tend to remain ordemators and later to become nebulous.

The importance of blood grouping before keratoplasty is yet to be determined. In all of the last six cases reviewed by the author the blood was

different

In discussing this report, KEY described transplantation of the whole corpes-corpsociliaroplanty-for use in cases in which the corner is too dense to allow sufficient nourshaugst of the trans-The method counts of dissection of the whole corner from Desceners memberne inerther with a confunctival flats, to preventing the invents humor from compar into contact with the new transplant.

Capracyticio agreed that the acmeous humor should not be allowed to remain in contact with the unprotected corneal stroms any longer than necessary but expressed the opinion that the use of an accurately fitted transplant with consenctival flaps for pressure is an adequate method of obtaining a water-tight closure. On the bases of observations in assural experimentation, he believes that esdothelmm affords as good protection as Descemets overshramo EDWARD S PLATE, M D.

Hope-Robertson, W. J. Hampstreloblesternstout Crets of the Ration. Australian & New Zasland J 5 mg 954, 4 15

The author reports a case of hemanpohisticent our cross of the retres because of the rarrity of the condum and because of the important fact that you Hipped' drasse is frequently associated with hermangioblastomatous cysts of the braza, Licineya, pancress, liver adrenals, and epidadyusis. The amountion of these crats in the brain and retine and the liver and pencreas is called "Linden's syndrome

In some cases there may be a cyst of the bram and a polycystic kidney but no lesions of the retine, m others, a cryst of the braus or speasi cord but no other lesions and m third group, crats of the brain and retine. Lindan states that the obsesse is familial in so per cent of the cases and has been known to occur in three generations. In a per cent of cases of hemazeloblastomata of the retina there are amclated hemanpoblastomata of the bests. Earner In the very late stages, the cheese is really degreed in the eye. Therefore when a patient later develope signs and symptoms of a brain tomor, the eye come tion is a very useful clue t the nature of the boile lexion. In all cases of brain tumor the scaler fract should be thoroughly examined not only for prokrdems but also for hemasyloblestone, and m ill cases of human pioble stores of the retire an example tion of the central nervous system should be made Harmangioblessoms of the return may appear at any are after the aerond decade. It is more common a major than in females. The lexions are frequently

multilrike The patient usually presents himself complained of failing vision. Darier save that enistaris, cores gia, and dazzline before the eyes are prepository symptoms. The malerity of the cases reported was to show that the visual defect comm on headlouse In most cases the condition progresses to absolute bindness, usually with secondary glavours which a many instances percentiates conclusion of the 5s When detachment of the retime begins complete blindness soon results. On ophthalmoscopic examnation the disease is characterized in the early stages by one or more round redchen tumors the which one or more greatly enlarged and tortures artents tell veins communicate. After the tuesor has been preent for some time it begins to produce the cycl which is the cause of the detachment. As the providis composed of thin-walled capillaries it gives rue to repeated hemorrhages. The hemorrhages appear first in the retine and may then break through take the vitreous or II they break through the external limiting membrane, may peasetrate between the retina and thoroid. Numerous exudates appear is the layers of the retine Eventually retinute prebleran may result and came detachment. The cra usually increases in size until the retise is completely detached

The growths in the brain occur generally in the cerebellum and medulis. Linden states that the lexicos found in the bidneys and liver are not because glomatons but represent an association of each type of congenital lesion with another

Lenns L. McCox, M D

Liffie, W I and Adeen, A. W Unifereral Central and Annulus Scottomax Produced by Calles from a Fracture Extending loto the Optic Case! Report of Two Cases. And Ophila 454

The authors report an unusual spatialization syndrome occurring in two cases following a fraction along the base of the skull which inverted the solid canal and was not revealed by recutgemerans. The syndrome was so similar in both cases that it might be classed as almost pathognouscase. At the time of the injury both patients presented an ecchymosis of the eyelids and isequality of the pupels. The only visco complaint at the time of the inputy was made in the first case and was due to partial internal opatheless plegin. Both patients were dismissed from the hospital as well, and it was not until from six weeks to two months later that the progressive loss of vision was sufficient to impress them with the necessity for re examination. It the time of the second ophthal mological examination in each case, identical changes in the perimetric fields were found and the pathological changes revealed by roentgenograms of the optic foramen were similar.

The authors believe that localized roentgenograms of the optic foramen might be of value at the time of injury and should be repeated at intervals if necessary. This technique has been simplified by Camp and Gianturco. Although the described syndrome apparently is rare following fracture along the base of the skull, it necessitates a guarded prognosis following any injury of the skull. Lillie and Adson be lieve that decompression of the optic nerve is indicated, but should be done early in the progress of the lesion before permanent injury has occurred.

#### Iyle T K, and Fenton, F G The Advantages of Intravenous (Evipan) Amesthesia in Ophthalmic Surgery Bril M J, 1934, 2 589

Anesthesia induced by the intravenous injection of evipan has been used extensively in general surgery. The authors report on eighty six ophthalmic operations in which it was employed. Special advantages of this type of anæsthesia are the freedom of the operative field from cumbersome inhalation apparatus, the relatively low incidence of the usual after-effects of general anesthesia, safety in the cases of old and enfeebled patients, and a decrease in the intra-ocular tension during the anesthesia. The only contra indications to its use are extensive disease of the liver and kidneys.

In the cases reviewed a solution of 1 gm of evipan to 10 c cm of sterile water was employed. The dose varied from 41/2 to 12 c.cm of this solution Children require slightly more according to weight. No preliminary medication is given. The drug is injected slowly until the patient is unable to count. At this stage half of the necessary dose has been administered and a like amount should be given at once The average patient remains fully anasthetized for from fifteen to twenty five minutes. A further injection may be given when the patient begins to recover from the first injection. In this way it was possible, in one of the cases reviewed, to obtain anæsthesia satisfactory for an operation requiring an hour and a quarter

SAMUEL A DURR, M D

#### EAR

#### Gray, A A The Otosclerosis Problem Including Reports of Two Cases Examined Pathologically J. Laryngol. & Otol., 1934, 49, 629

Gray states that the essential causative factor of otosclerosis is a gradually increasing defect in the vasomotor mechanism which governs the nutrition of the structures of the organ of hearing as a whole

Included in this vasomotor mechanism are, of course, the axon reflexes. The stimulus which excites the vasomotor mechanism is sound and sound alone. Consequently the vestibular apparatus and the semi circular canals are unaffected in otosclerosis.

There is no evidence whatever of a defect in any of the endocrine glands or their secretions in oto-sclerosis. Neither is there any evidence of a defect in the bone metabolism of the body. On the contrary, the subjects of otosclerosis are, apart from their deafness, perfectly normal individuals with ordinary average health.

The deafness of otosclerosis bears very little relationship to the extent of the disease in the bone. It may be very severe when the stapes is hardly fixed

than The severity of the tinnitus bears no relationship to

the extent of the disease in the bone

The extent of the change in the bone bears very
little relationship to the duration of the disease

The extent of the changes in the bone appears to depend upon the age of onset of the disease. The earlier the otosclerosis begins, the more extensive will the bone lesion become

The deafness of otosclerosis is to a large extent functional and the result of the insufficient supply of blood to all the nerve structures concerned in the perception of sound

The greater frequency of otosclerosis in women then in men is due to the greater instability of the vasomotor system and the more frequent disturbances to which this system is exposed in women

The changes in the bone show a remarkable bilateral symmetry, even to minute details. This symmetrical distribution is readily explained by the author's theory of the causative factor of otosclerosis. The vasomotor nerves governing the nutrition of the organ of hearing are anatomically symmetrical like other nerve structures in the body. Therefore, if structural changes occur as the result of defective functioning of those nerves such changes will be bilaterally symmetrical in their distribution.

JAMES C BRASWELL, M D

#### MOUTH

Duyvensz, F The Saliva Proc Roy Soc Med, Lond, 1934, 27 1583

In a study of saliva the first problem is to obtain the saliva in satisfactory quantities. It should not be "stimulated" saliva as changes in the quantity are usually accompanied by changes in the quality of the secretion. The usual amount for testing is 20 c cm. The author describes his method for collection and reports the findings of his studies with regard to the presence of hypophysical hormones in saliva, the hydrogen ion content of saliva, and the salivary content of calcium and sulphocy anate.

He states that the pregnancy test of Zondel, made with saliva instead of urine indicated that it is possible to diagnose pregnancy by means of a biological salivary reaction

Two methods of determining the hydrogen loc concentration of salars and a method of determining the buffer action or described. The buffer action powers of more significance and should be given more consideration. No conclusions are presented in this article regarding the clinical polycatoon of the information obtained by the tests described.

In alkaline salves the phosphores content is usually low and the calcum content high. In seld salves the reverse is true. In regulating the calcium content of the salves by diet the intake of phosphores and of Visualub D must be taken into consideration.

The thor describes method of ultra filtration which separates the various serum colloids from each other without causing changes in their chemical or

physical qualities

If states that subbook nate is always found in human sallay, but filled is known of us purpose. The suphocyanat content is definitely increased by sending Subbookyanate compounds evert an affect post the blood pressure which may be factor in promises. A comparate wanted of the capitales of the prima, akin, and sual beds with the Local content and the Lellar increased between the providers is due to Lecul or exceeding whether promises is due to Lecul or exceeding the properties. The content is the content of the

Lund, C. C. A Comparison f the Apparent End-Results in Cases of Carcinoms of the Mouth in Relation to the Length of the Follow-Up. Am J Cases 1044, 22 155

According to the American College of Suppose, suitafactory profits on the treatment of carcinoma can be based only on cases which have been followed at least fore years after the treatment. This causes long delay before report can be made on any improved form of therapy. There are many rapidly changing techniques, especially in the field (irridation for this reason the uthor made a statistical study of cases of cardinoma, companing the results at the end of one, two, three, four and five years after treatment, in an effort to determine the five west results to the other west cardinoma.

The cases studied were treated by surgery or irraduation or both, depending on the extensiveness of the lesson A effort was made t compare the

efficacy of the methods

Of the patients treated for extensions of the mouth whose condition as favorable t the time of the treatment and who renamed ell t the and of year a recurrence developed during the next four years in only. Of 33 others treated for oral cardanous, all developed first year.

Of the 16 patients bo ere treated surposally for carcinoma of the ipp and whose condition was favor ble t the time of the operation or remained cured t the end of a year. At the end of tree years, 8 still

remained cured and 4 ere dead or not traced
I cause of carefnoma of month which are less
favorable and were treated by irradiation, favor

than one-half of the patients who were living and well t the end of one year ware living and well at the end of five years

Between the one-yes and five-year period, the number of patients apparently cured declared from

one-marter to one-half.

The death rate from new primary becal or chromata was 15 times as great as the expected death rate from boscal carcinoma in a group of patients of the same age and sex and in all of the case the death rate from new primary carcinomats was 1

times as high as calculated. Looss T Byars, MD

Boyle P R. Intracellular Bacteria is a Destai

Grammiogra. J Destai Rev. 212, 2 207.

Because of contamination of auterial and to culture or injection, the print ionality between detail infection and systemic disease does not look less ready to experimental investigation. Devel is tological evidence of intractibility organizes in detail gramulomate is therefore of importance. The author reports a granuloma presenting such evidenbility was found in the routine hustological eramination of 200 texts. In the center of the solid timore which was about 3 mm in diameter wer many inonconsclear plaqueyers of the found variety. Practically all of these critic contribed

numbers of Gram-positive, non-acid fast bacill

#### PRABYNT

Hall, C. The Parapheryageal Space An Americal cal and Clinical Study Ass Dat Rised b Laryers 334, 41 741.

For an understanding of the etiology symptoms, complications, and therapy of infection in the various regions of the neck a general knowledge of the

rious regions of the neck a general knowledge of the deep cervical fasens is essential.

All of the important structures of the such are contained within the bounds of, single large cervical abeath which extends from the base of the stall

bors to the upper end of the thears below The great cervacial shaeth is unsully referred to se be "apperficial layer of the deep fastia. Medial tensoos of this layer give each structure is involund fascal envelope. From a practical standpoint, there are to deep divisions of the face coll the vacciral fascia or abasth, and the preverticular fascal.

Within the visceral sheath his the respiratory rocal, and dephistory organs in the next and, in addition, the thyroid and parethyroid glands. When the sheath becomes quite thethered and pases in front of the bodies of the certical cretent, the calcuss actions, the longer coll mostle, the phresis and sympathetic nerves, it becomes know in the "preserverbral faucia."

The siar fascis is an expansion bich form a confi nation between the carotid shorth and the visceral fascis. Its importance lies in the fact that it completes the anterolateral expect of the retrepharyngeal space throughout the entire length of the neck and separates this space from the lateral

pharyngeal regions

The superficial layer of the deep fascia—the great cervical sheath—sends in a deep extension to encapsulate the submaxillary gland and another extension—the deep parotid fascia—which completes the capsule of the parotid gland except above

Thus, from a clinical standpoint, there are four definite deep cervical spaces (1) the submaxillary space, (2) the parotid space, (3) the retropharyngeal space, and (4) the parapharyngeal space with (a) an anterior compartment and (b) a posterior compartment (carotid sheath)

Practically, the deep cervical fascia can be divided into four parts (1) the great cervical sheath, (2) the visceral sheath, (3) the prevertebral fascia, and (4) the alar fascia

Every deep structure contained in the neck has its own individual fascial covering which it receives from the deep fascia. In certain areas the fascia be comes thickened and prominent—the carotid sheath, for example. In other areas it becomes so thickened as to form so called ligaments, such as the stylomandibular. In some regions of the neck there are reduplications or reflections of the fascial covering of one structure which render it directly continuous with the fascial covering of an adjacent structure. An example is the alar fascia. This plays a most important part in the formation of the anterior compartment of the parapharyngeal space.

The parapharyngeal space is composed of two compartments, an anterior or prestyloid, and a posterior or retrostyloid. The posterior compartment is the carotid sheath and its contents. It extends from the base of the skull to the upper end of the thorax. The anterior compartment is normally a potential space and becomes an actual space only when it becomes the site of disease. It contains a small amount of connective tissue and usually a few lymph glands. It extends from the base of the skull above to the angle of the jaw below.

Etiologically, there are three types of parapha-

ryngeal infection

1 The type which follows tonsil surgery and is preceded by local anesthesia

2 The type in which there is an extension from

a neighboring compartment.

3 The type in which the paraphary ngeal space is the site of the initial invasion of the deep fascia and is not preceded by throat surgery

Pathologically, there are two types of cervical

involvement

The phlegmonous This is the most common The signs of local inflammation are predominant

2 The vascular The symptoms are those of septicæmia, thrombosis, or embolism without accompanying signs of cervical phlegmon

There are four cardinal signs of involvement in the anterior parapharyngeal compartment (1) inability to open the mouth widely, (2) induration about the angle of the jaw, (3) fever, which may be

septic in character, and (4) medial bulging of the pharyngeal wall

The treatment of parapharyngeal infection is surgical When the symptoms mentioned appear, early surgical drainage is imperative. To await fluctuation in the presence of these symptoms is to await complications.

SAMUEL KAHN, M.D.

#### NECK

Quix, F H The Difficulties of Removal of the Cannula Following Tracheotomy (Die Beschwerden des Dekanulements nach Tracheotomie) Nederl Tijdschr v Geneesk, 1034, p. 2306

Difficulties arising after removal of the tracheotomy cannula may be divided into those due to changes above the tracheotomy opening, those due to changes at the site of the opening, and those due to changes below the opening The upper portion of the trachea can be examined without removal of the cannula by direct tracheoscopy for changes in the mucosa and perichondrium and incarcerated foreign bodies After this examination has been made attention should be directed to the vocal cords and the tracheotomy opening. When air has easy access through the cannula the vocal cords are practically closed, but unless paralysis of the recurrent larvingeal nerve is present they open up when the cannula is closed Bilateral paralysis of the recurrent laryngeal nerve is extremely rare, but may occur in cases of tumor, gotter, and wounds Immobility of the vocal cords may be caused also by tuberculous or syphilitic affections The subglottic region which is usually markedly swollen in diphtheria can be examined from above with the aid of an electrically illuminated spatula only when the vocal cords are separated. For examination of the region of the tracheotomy opening, removal of the cannula is necessary By the introduction of an ear speculum it is possible to de termine whether the respiratory difficulty is due to granulations For examination of the region below the tracheotomy opening it is necessary to use a bronchoscope introduced from above or through the opening in the larynx Proliferations interfering with respiration which are situated below the tracheotomy opening are not relieved by the use of a cannula however well it is fitted.

The treatment of the various conditions encountered requires the entire larvingoscopic instrumentarium. Granulations may be removed with forceps or by electrocoagulation. Inflammation of the perichondrium in the subglottic space requires long-continued treatment. To secure the best position for the cannula the opening should be made, not through, but below, the cricoid cartilage.

(DUNCKER) JOHN W BRENNAN, M D

Cutler, E. C., and Schnitker, M. T. Total Thyroidectomy for Angina Pectoris Ann Surg., 1934, 100 578

The authors studied twenty-nine patients subjected to total thyroidectomy for the relief of angina

pectoris since December

Brigham Hospital, Boston

Onl

Patients with the nost severe form of the disease ( anging decubites ")

Within fort hours after the thyroidectomy there deaths du 1 coronary closure. There ere fou late deaths hich occurred from five day ere too the desires take occurred from the con-right months, and three a cela, firet the operation Each of these deaths as of cardiac rigin. In all of tacm or these ocatins—as or carmiac rigin, an air or t—ent)-one patients followed for from t—0 and one dusties ( serices months the brind 1 seizura seas quarter t seateen moutas the point a manufacture of releved. In ten, the improvement ranged from 90 f reserves in ten, use improvement ranged from 90 for cont in four from 35 t 80 per cent and in fee from 90 to 74 per cent 1 t 0, t as few than 5, per cent 1 ha crit, na of improvement acre 5 per cent ing crit na or improvement were chieff the neklence ad sevents of the pain a in-

dicated by the patient one of mirrogly cerine It was found that the reduction in pain as not bothouries to the paral metapolic rate and oc curred almost immediately after the operatio suggested that the mechanism of relief as different

from that in cases of congruire beart fallure om staat in cases of congressive neart samure. Further investigation of skin temperature changes, the regionse t drenalm before and after operation, the effect of adrenain in the production f eigen mental prima pectoria, ad the known relationship bet cen the th road, drenal, and s) mpathetic et een 190 in 1984, menst, and s) mpatiere. stem suggested that dremal secretion might be an stem suggested that the causation of thacks of gins pectors Since the cardiac inners from a intact and percorn other the tarbuse times. The output of adrenalin, the thorn post lat that the operation local effect bich renders the cardiac prechanum less court to adrenalin

THE THE

Jimenez Cerrantes-Pinota, J. The Treatment of arnez Cervantes-Finora, J. Line frantment or Lacytiges! T berculosis (Tratamente de la inch de med ciral y H 5 861 Since, except

since, except (1) tare managers, any gen-t berculous is secondary t pulmonary tuberculous, en rare instances, lars geal the large guidest and the phthistologist should get close co obstatio (pil p) strep co-obstation can be seen knowled our resident streams of the best result be obtained

The treatment indicated the treatment inducated arrangem is percussing both general and local. The general treatment is lars ageal ( berculous based on rest pure and nouruhment

The most effects treatment of both the lary grad inc most current treatment or tools too late from and the pulmonary leasons is ollapse therapy to peciali pocumothora. The thor believes that fecture potentialists and personal fecture for the source of the fecture fecture for the fecture fecture for the fecture fecture for the fecture for the fecture fecture for the fecture fecture for the fecture fecture for the fecture fecture fecture fecture for the fecture fectu tors the high and haven t explain the usual to creating and larrangers and polymorary lessons seriousteraut or services and promoners sessor and their parallel inprovement under promoners sessor Irestment

dilition ( ritheral pneumothura plombage phrenieret in thoracopti I ad trachesi mee from of medicated oil has been used Methods of tum or memorates on na oven used atentus or general treatment belode also the mm notablescal nd the medicinal horror sera nd other bodog nor the memorator and drugs has been advocated

The local treatment of lary negal teleproducts in too socal treatment or tary needs topercolosis in cludes medical treatment, which is now seed only for pelliation in incurable cases the above cur soc better room in incurance cases one menor case venous n peneinus pro socurers per and socretar treatment. The allence cure though easy theoretical ly is in reality difficult. Some laryagologies have strembted toptain it plannes performed on tracing

accompany outsing a performing trachestern te navyagent nerve or performing transcourse. Heliotherapy, ultraviolet traduction, rocuteus frencherapy nureroses ursumos, roomes irradiation, the high frequency cautery sad rado active substances has been used. Henotherapy and active sucrements may been seen attractionally and

untervoice remutations in a ocea empayer peo-frequently ad have yielded good results. Radical surgery has been bandoned in the treat ment of Jath unter I perculose. The one time surgical procedures t be considered are surgery of the lar year nerves, galvanoes terisation, of dathermocoagulation Disthermocoagulation is now seldom used. The larysgest nerve may be serve thefired with a per cent solution of storais in skopol of a 1 bet cent soprition of cocras pr cultiskutner a 1 per cent soution or cucasa or time.
Hoffmann or Frey procedure The superior
Livingual nerve is best Plenached for receive through the vertical incision described by Lecture

entrough the vertical increase occurrence by accura-ring as this is associated. Ith the least harmorthage Disthermocragulation abould not be employed for acut lesions, but may be used with care for states ry lezions such as h) perplastic degeneration of the cords, interarriemond veget tions, tumor formation,

and lealons localized in the cregiotth Galvanocauterization is one of the perfored methods of treatment. Its action is not ell anderstood as it not only destroy and regenerates these but also sterilizes I a distance rendering discard put ano sterming t a chitabre reporting measurement and a chitabre reporting measurement in a chitabre reporting measurement and a chitabre reporting measureme pain ad bemorrhage are rare and mild. Gahane ca termstion is indicated chiefly in cases of early t berculosla limited t one part of the lary ar, such as the rocal cords or entricula hands, and lesses imited the epiglottis. It is do greens hen the ary tenord to much infiltrated and show tradency toward redema and in the presence of periclosidesis and the ges in the circo- i) lenold circulation. It is contra indicated also by certain general manifests. toors are as poor defense, rapid pulse an irrep-la fever and tose of eight (cood salients)

tability re necessary. The cautery should be seed hen it is berry red, ad the treases should be burned deeply \ot over one fourth of the layer should be cautenzed. T present the formation of synechize treatment of contralateral adea t are sitting should be orded W II MARRIES MD

Fig. F. A. Supraglactic Turners Methods of Treatment, and Illostrative Cases. And Osliet een January

patient with malignant tumor of the lay as er 9 5 and J nuare : 434,539 examined the M Clime The thorocael, destanting the M Clime The thorocael, destanting that the best proced re for the removal of realer as a temor from the supragiottic portion of the lary us the procedure affording the most satisfac

tory view of, and the nearest approach to, the lesion Growths limited to the epiglottis can often be taken care of by diathermy and laryngeal suspension as satisfactorily as, and with less hazard than, by phary ngotomy. However, only inactive, fungating, or pedunculated lesions of limited extent should be treated in this manner. Pharyngotomy remains the most satisfactory means of dealing with most malignant tumors in this situation. Irradiation is a valuable adjunct to the surgical treatment of supraglottic tumors, but should rarely be used alone.

The indications and technique of the procedures of value in the treatment of these lesions are pre-

sented together with illustrative cases

#### Loré, J M Stripping of the Vocal Gords Laryngoscope, 1934, 44 803

In experiments performed by the author on cats one vocal cord was removed and the other was left to serve as a control. The removed cord was examined microscopically to check it against the cord newly formed. At various intervals after the removal the larynx was examined by direct laryngoscopy to note the degree and method of healing. After complete healing had taken place, the larynx

was removed and the newly formed cords were examined microscopically and compared with the original cord removed. The findings indicated that a vocal cord will regenerate structurally. The only difference noted was that the new cord was thinner than normal, but the author believes that if the new cord had been examined later, even this difference would not have been observed. Functionally there was no impairment in the movements of the cords, but there was some change in the voice

In a second series of experiments wedge shaped pieces or irregular portions of a cord were removed and the end-results after healing were studied. The cords so treated showed a tendency to bow because of scar-tissue formation, but to compensate for the concavity in the new cord the normal cord became

convex The end-result was a good voice

An attempt was made to straighten out bowed cords by removing subjacent tissue from the anterior and posterior thirds of the cord. In three cats, however, the result was unsuccessful

In conclusion the author reports four clinical cases in which one or both vocal cords were entirely

stripped off with satisfactory results

J THORNWELL WITHERSPOON, M D

#### SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS CRANIAL MERVES

Rossey G and Mosinger M A Study of the Intermediary Lobe of the Hypophysis (Étude du lobe intermédiare de l'hypophyse) Aus d'aust juli, 653

The discovery by Zondek and Krohn of intermedia has awakened reneved interest in the intermediate zone of the hypophysis. The immigration of gland cells into the posternor lobe and the forms too of creats in this lobe present histophysiological

problems of the prestest interest

The authors strided hypophyses of salistic and old persons, 6 hypophyses of children form few months to seventeen years of age, and the hypophysis of a fatus eight months of age. They paid special attention to the hypophyses if strare and the directivals which occur in it in children, the sero-albuminous glazds of the intermediate lobe, and the infiltration of the posterior lobe by glad cells

They describe the cells lining the kypophyseal fisure and show them a th photomerographs. These cells, bether mesenchymatous, epithelial, giandular or acuro-endocrine, seem to be important physiologically. They contain salerophile granules.

The anterior will of the hypological fissure is generally considered to belong to the anterior lobe, and the posterior will I form part of the interior lobe, and the posterior will I form part of the interior and posterior will as a very me to the lower manusal, but in man the cells covering the anterior and posterior wills are very me halts and there are evidences that both of these sones belong to the intermediate lobe. According to Haller the hypological fissure opens into the soharachood space that the solar control of the hypological fissure described by Haller were artefacts and that the epithelium of the anterior will of the hypological fissure sterior into anterior will of the hypological fissure extens into

direct contact with the par mater There are 5 groups of diverticula of the hypophyseal fasure the superior the inferior the lateral. the a terior and the posterior. Some of the posterior di erricula become transformed into hasophile cords The heapphile cells of the attermediat lobe therefore come not only from the posterior all of the fasors but also from the posterior diverticula. The expense diverticula and some of the lateral diverticula give das t certain colloid cysts of the anterior lobe. The inferior diverticula bring bout infiltration of the capsule of the hypophysis ad infiltration of the lower segment of the hypophysis by basophile cells. The posterior diverticula may penetrate deeply int the posterior lobe and become transformed nto either basophile cords or serous glands. Some of the interal deverticula may also penetrate the posterior lobe.

The glands of Erdhelm or the servalbenhaughted of the intermediate lobe are either servalben or compound tubular glands which have a survive introduction of tubular glands which have a survive intermediate to the servan glands of the man! mucrous membrance. They result from secondary differentiation of the protector deverted contavy differentiation of the protector deverted personner is described in death and above we have contactly the contraction of the contracti

There has been great deal of controversy with regard to the way in which the giant cells brede the posterior folos. It is uncertain whether they originat from profileration or earlier handgrates. It is probable that they arise to cretal critic from profileration. The score of indivision is also frequent sites of admonstate with basephile cell. However, earlier handless has occurred to the lower critical control of the control of the other control of the control of the control of the other control of the control of the control of the other control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the control of the control of the control of the other control of the other control of the c

poobe cells are rare

There is great deal of difference of opinion size as to the origin of the gland cells of the posteror lobe Some investigators hold that they originate from the anterior lobe, whereas others think that they come from the intermediate lobe. The authors have found that in children with the hypophyses! fissure intact the infiltrating cells come solely from the besophile tracts of the intermediate lobe 1 the adult their origin is more difficult to determine because of the direct continuity between the auteria lobe and the intermediate lobe t the intercratic spaces. However the presence of coshophie our suggests that the anterior lobe contributes I lead some of the infiltrating cells. It is the coslaopinis cells which give rose to the pigment of the posterior ACTUALT GOES MOROA MD loba.

Locker W. and Jacobi, W. t. The Importance of the Intracranial Pressure in the Circulatory Conditions of the Brain in Arteriographic Vasalzation (Die Bedestung des Handrackes for the Durchstressmagnersheldteise in Gelm in attemgraphischer Duntrillung). Zambabi. J. Chr. 534, 9—783.

The pressure conditions in the brain have as reptionally strong influence pon the nature of the blood circulation. Under normal conditions stringraphy about that the blood pressure in the incirculate surveys accurately balanced between the passage of blood mind the passage of blood mind the passage of the properties of the passage of the passage committees the passage that the passage committees the

of the brain, particularly at the base of the latter, Serve essentially as reserve canals in a normal arteriogram one sees with exactness only the vessels belonging to the region of one carotid interna in the brain. The connecting branches to the cortehral the brain. The connecting branches to the vertebril

When the diameters of the vessels of one side of artery on the same side are never visible the brain vary from those of the vessels of the other side—for example, in discusses of the blood ressels, arteriorene or line—the arteriorene change. arteriosclerosis, the arteriogram (in addition to the arteriogram) We then see in the arteriogram (in addition to the we then see in the trichogram (in audition to the vascular diseases which have been successfully demonstrated and account of the control of t onstrated and meurisms) the passage of blood from the lascular region of one carotid to that of the However, pathologically increased intraorner rowerer, parnougherny merersen merersen cranial pressure also changes the circulation of blood in the brain very markedly, particularly when the pressure is increased in only one half of the brain, In cases of tumor of the as in cases of tumor in cases of tumor of the anterior and middle criminal fosses the contributions anterior cerebral arter) and its dividing brinches (arter) appropriate appropr (arteria pericallosa marginalis) are almost always as in cases of tumor farietia pericanosa marginaus) are annost anvays filled on the normal side, a very important sign of the presence of a tumor of the presence of a tumor force the rooman contains anterior and middle cranial force the rooman contains an enterior and middle cranial force the rooman contains an enterior and middle cranial force the rooman contains an enterior and middle cranial force the contains an enterior and contains an enterior a anterior and middle crimal fosse this roentgen sign anchor and mode of that 1000 the Posterior is never missing. In cases of tumor of the Posterior count force of the posterior is never missing in cases or tumor of the posterior cranal fossa it is inconstant. On the other hand, cranial fossa it is inconstant of the posterior cranal in cases of large tumors of the posterior on the fossa with extraordinarily errors. in cases or large rumors or the posterior on the fossa with extraordinarily strong pressure on the hoest the boest the secole also appear to the hoest the boest the secole also appear to the hoest the boest the secole also appear to the hoest the boest the secole also appear to the s basal vessels, the basal vessels also appear in the pasal vessels, the prisal vessels also appear in the roentgenogram. In hydronephrosis, hich is equally reell developed on both sides this sign is absent The article contains a series of roentgenograms

The article contains a series of roentgenograms which support the authors' statements regarding severe arteriosclerosis and tumors. present also the arteriogram made in a case of bedrocenhalis which the bedrough not done to a history and the artenogram made in a case of a hydrocephalus which they believed was due to a time. The findings in the artenogram more those times. The findings in the artenogram were those expected In the lateral view only the vessels of expected in the micrai view only the the antero-the injected side were visible, and in the anteroposterior view the anterior cerebral artery vas ex posterior view the anterior cerebral artery vias exactly in a vertical line and therefore in the normal Subsequent ventriculography showed a position Suosequent ventriculography Suowed a high grade hydrocephalus When arteriography was mgn graue ny arocepnaius when arteriography was very the arteriogram was very the ventriculo the arteriogram obtained before the ventriculo the arteriogram of the arteriogram as it should the passage of the arteriogram as it should the passage of the arteriogram as it should the passage of the arteriographic examination as it should the passage of the arteriography as a should be passaged to the passage of the arteriography was not also are the passaged to t the arteriogram obtained period the Passage of graphic examination as it showed the Passage of the brain to the other through blood from one ode of the brain to the other through graphic examination as it showed the prasses of blood from one side of the brain to the other through oloog from one side of the brain to the other through rice arreira communicantes il increiore proved roentgenologically that ventriculography can basi roungenoughany that ventucing apply can passed the circulatory conditions in the brain and the charge the circulatory conditions in the brain and the conditions in the conditions in the conditions are conditions in the conditions and the conditions are conditions are conditions and the conditions are conditions are conditions are conditions are conditions are conditions are conditionally cally change the circulatory conditions in the orain and it thereby explained why ventriculography and it thereby explained why ventheulography carried out in the presence of pathologico anatomical changes in the brain with carried out in the brain with resulting abnormal pressure conditions, especially in cases of tumors, is often sure continues, especially in cases of turnors, is often not well borne. Arteriography does not change the or wer worne arcenography does not change the circulatory relationships in the brain With respect circulatory relationships in the brain with respect to the latter arteriography is considerably safer than ventriculography and therefore can be carried out ventriculography and therefore can be carried out even when the general condition is very poor, under even when the general condition is very pool, under which circumstances ventriculography is contraindicated

Phillips, G. Radiography in the Diagnosis of Innips, G Radiograph) in the Diagnosis of Intraction of New Zealand tracranial Tumors

Roentgenographic signs of value in the diagnosis of increased intricranial pressure include (1) convolutional states of the convolution of the skull, (2) separation of the sutures of the skull, (2) separation of the sutures (particularly in children before bond union of the sutures (particularly in children before bond union of the suture) or the skun, (2) Separation of the sutures (particularly in children before bon) union of the sutures has taken place), and (3) distention of the pituitry faces without process of the dozenia calls. These has erken place), the (3) distention of the predicty
fossa without erosion of the dorsum selly
fossa without erosion of the dorsum selly
fossa without erosion (the local prediction) lossa without crosion of the dorsum selfic turcical changes result in a "ballooning" of the sella turcical changes result in a fortunary tumor the enlargement changes result in a principal of the sena curent whereas in cases of pituitary tumor the enlargement is accompaned by an irregular erosion of the dorsum with a change in the contour of the chinoid

In the localization of the site of an intracranial tumor the following signs are of value (1) calcifications (a) are some and hypercontains (2) are tumor the ionowing signs are of vine (1) entends then, (2) erosion of bone and hyperostosis, (3) intion, (2) ecusion of none and my perostosis, (s) increased meningeal irrigation, (4) a lateral shift of creased meningeal and (a) antirontographic error the propositional and (a) antirontographic error. processes the pineal gland, and (5) ventriculographic signs Calcification is seen in 20 per cent of intracramal tumors It is most frequent in craniophary ngeal

pouch cysts, oligodendroghomata, and meningioma pouch costs, ongouendrognomata, and meningiona ta Its presence is of some value in the prognosis as ta Its presence is of some value in the Programme and tradicates a low degree of malignancy. The former is hyperostosis are fairly common. slightly more frequent than the latter Erosion is hyperostosis are fairly common, sugners more frequent than the fatter prosion is seen fairly often in meningiomata and pituitary scen many orien in meningiomaca and pitut tumors but rirely in subtentorial tumors tumors but there in subtentional tumors the increased meningeal irrigation or marked increase in the blood supply to the tumor and surrounding in the blood supply to the tumor and surrounding tissues subjects the adjacent bone to pressure producing erosion. The erosion results in deepening and during erosion. aucing erosion the channels on the inner surface of the skull bones, which then appear as channels of rarefaction Lateral shifting of the pineal gland is rarely

of aid in the diagnosis of brain tumors

Air is used as a contrast medium in the diagnosis of share of the contrast medium in the contras nation of the central nervous 53 stem in three methnation of the central nervous system in three methods ventriculography, encephalography, and lumbar ons venericulographi, encephanography, and infloring the insufflation consists in infromsufflation consists in infromsufflation consists in infromsufflation consists in infrainsumation Lumbar insumation consists in intro-ducing from 5 to 10 c.cm of air into the lumbar space This procedure is much safer than ventricu-lography and encombolography as it is followed by lography and encephalography as it is followed by

lography and encephanography as it is ionowed by a less severe reaction. However, it requires consider a 1655 Severe reaction 110Never, it requires considerans ably more care in the taking of the roentgenograms and considerably more experience in their interpretaand considerably more experience in their interpreta-tion. As incomplete filling of the ventricles renders tion as incomplete mining of the venturies tenuers the diagnosis difficult and complete filling is danger. ous, determination of the proper amount of air to The ventricular distortion produced by an intraintroduce is of great importance

cranal neoplasm is usually accompanied by some displacement of the septum lucidum Roentgenograms which show apparent distortion due to filling grams which show apparent distortion due to mining defects always show the septum lucidum in the normal midline position. Whenever there is obstruction of the cyclem posterior to the upper and of the tion of the cyclem posterior to the upper and of the tion of the system posterior to the upper end of the tion of the system posterior to the upper end of the aqueduct of Sylvius bilateral symmetrical hydrogeneous acceptaint to come of the control aqueduct of Sylvius material symmetrical nyurocephalus is present. In cases of tumor producing obstruction in the region of one foramen of Monroe only one ventricle is dilated

In case of hemispheric tumors, whether extra cerebral or intraorderal, the object of ventriculosraphy is to determine the position of the septima incharm and the size, shape and position of the internal ventracies. Because of the relatively affect to the contraction of the relatively affect of the contraction of the relatively affect and most frequently receifing ventral-loopraphic sensination are the prefrontal, parasagittal, and postparied heophysics. Jour Witness Error, M.D.

Gross, S. W. Tumors of the Brein in Infancy: Clin ical and Pathological Study. Am. J. Der Child 014, 45, 740.

Of the nine cases of brain tumor in infants which are reviewed by the author eight are those of mid-Hydroczyhalia was present in all Serne of the tumors were located in the subdecebellar region, the most common site of brain tumoes in infancy. The most common site of brain tumoes in infancy. The most common site of brain tumoes in infancy to most an area of the common site of the common site of two medullohisationata, and one embryonic tumor of neuro-cripicalist origin not desirely classified.

In discussing the diagnoss Green says that many of the signs on which rehance is placed in the study of discuss of the network of the size of the part of the service of th

Suddayal hemationate occur in the more fracelly appeared to landary than has been realized and requestly in landary than has been realized and rective the cross of ealargement of the head. By carried taking of the history and difficult strokes, this condition on smally be differentiated from times of the brein. In the differentiated from times of the brein in the differentiated diagnostic, hydrocephalm due to other connects or above the structure of the appealment due to an unfammatory process or a congenital defect, communicating hydrocephalms, and better of the brain, must be ruled out.

JOHN WILTHER EFFOR, M.D.

Egiston, A. A. Pathways of Infection in Supporttive Meningitie. A. Old Rhad & Larged

914, 41 67

A review of 363 deaths occurring in an eye, sernose, and threat hospital in the period from .got to 1933 revealed that 4.85 per cent of these deaths resolted from suppurative intracratial disease. The write cause of mediaptic, 35 cases of thrus abscess, and 14 cases in which these conditions were suscicited.

The regional venous circulation is of prime inportance in the system of infections to intra-enanal structure. This spread is usually brought about by a exptic thombers and way occur in a retrograde manner against the directation. The primary form may be an infection in the ubitory apparatus, paranasal sinuses, or cavernous sinus, or an infection following an accident or operation. Cavernous since thrombods, from hitter cause, usually results in a diffice distribution of laction in the leptomenings through the unertoo the train of the brain. Indections following surgical procedures may be due to accidental break ing through of the bone or per existing outside procedures arising from the parament slower and accidental break ing through of the bone or per existing outside a same as attributed to contradity or a supportant phichits. The frequency of intercratal indection colors for front almost size opposed to the ratio octoors for front almost size opposed to the ratio octoors for front almost size other fronts alton.

The pathways of infection from thesees of the temporal bone are numerous and complicated. The temporal bone are numerous and complicated. The wincous connections of the labyrinds, tympusus cavity and petroes pyrated become involved and spread infection in the beans through philebith. However, unless the supportative thromby reptare into the pia arrachoid, negligatifi or a hances may be face the property of the

not occur

Infection may apread through the peritabeliar or perialsylutifulton edits to the tip of the pertons bose. There it may cause an outstils or an exterory-clins with an extensive accumulation of post if the bose is perimatized bose. The pertons bose is coming to a generally incorphical as source of needing to a to the intracranial space (i) the acquested of the ext to the intracranial space (i) the acquested of the confiner with the perimaph space between the bony and membraneous labyristis, which offers a direct communication with the removal partial read (i) the confiner of the periman of the direct space of the accusa under the layers of the darm and (i) the retension of the perimental alsests from the labyristit t the notetrior craskil forces.

fore Wilmir Error, M.D.

Olivecrons, II.: Permangittal Meningiomets (Duparesepittales Meningeome) 934, Lepsig, Theree

Although this encourage of any pages with any measurature does only 10 parametriza meaningman on the basis of 31 cases observed by the rethout preferrate is against of brain sergings as it has been developed in the course of years by Obrercross. It is profulable to study the 3c can histones which are presented in very exact meanor and thereby to follow the development of Obrercross's surjuit technique step by step up to its present high level in addition to the case reports there are chapters on the pathological mantomy symposium today disposits, operative technique, and other-testment

In contrast to Crahing, Obvectors includes with pursuagital menioponests only the tumour bound on the falls and directly on the datus. From the point of view of the operative technique, avealinglynests, over the convex surface of the brain, even when they extend few millimeters to to the same, are not classified as pursuagitat in meniogeneous.

Of the 24 parasagettal meningiomats reviewed, to were located in the autorior third of the sinus, 14 in the middle third, and 3 in the posterior third, and 7 were tree falls mendageomats. According to Olivecrona, at least one third of all parasagittal meningiomata are bilateral Multiple meningiomata

are very rare Ohvecrona has seen only I case

The diagnosis in the cases reported was based on the neurological symptoms and the findings of roentgenography and ventriculography numerous instances the study of the ordinary roentgenogram revealed erosion of bone, spicula formation, massive proliferation of bone, and enlargement of the cranial veins and the furrows for the meningeal vessels—all important diagnostic findings Numerous roentgenograms are included in the article Although Olivecrona demands a strong indication for ventriculography, he apparently uses it frequently and with good results, not only for diagnosis but also to make sure that the operative plan is correct. He emphasizes that ventriculography should be followed at once by the

While Olivecrona usually prefers rectal anæsthesia for brain surgery, he considers local anæsthesia sufficient in cases of parasagittal meningiomata operation the latter, however, he gives liberal doses of luminal for its sedative effect. The skull is opened in such or its senauve enect. The skun is opened in such a manner that the bone flap, which is always pe dunculated in the direction of the temples, extends beyond the midline so that both sides of the bilateral tumor may be reached With regard to the question of ligation and resection of the sinus Olivecrona is very reserved. He states that when the sinus is entirely compressed or filled with the tumor it may be resected without hesitation since, under such circumstances the venous outflow has been gradually re-routed from the cerebral veins On the other hand, ligation of the sinus when it is permeable leads to disturbances of the circulation in the brain itself and, for example, in cases of tumor of the middle portion of the sinus, to disturbances of the innervation of the lower extremity Whenever possible Olivectona avoids removing tumors close to the sinus and falx As a rule he opens the dura of the converty close to the tumor, pedunculates the tumor in the direction of the sinus or falx while progressively caring for the vessels, and then removes the tumor with its point of attachment. Only in exceptional cases does he find it sufficient to destroy the point of attachment by diathermy As a rule he attempts to remove the tumor in one operation He states that procedures to relieve pressure, such as subtemporal decompression, should not be employed in cases of meningioma employed in cases of meningioma tion of the practice of giving blood transfusions (from 1 up to 6) during the operation to counteract the low blood pressure caused by the considerable loss of blood, radical removal of the tumor in one operation has become the rule. He has given blood transfusions in 80 per cent of his cases Drainage through a special opening close to the wound which has been sutured in layers is practical and not associated with danger of cerebrospinal-fluid fistula When drainage is not employed it is frequently necessary for several days to remove the

accumulation of fluid by puncture The pulse curve, the blood-pressure curve, and the chemical therapy should always be watched carefully

Of 34 patients, 15 per cent died from the intervention and 10 per cent died from recurrence In 25 per cent healing occurred with a defect, and in

50 per cent complete healing resulted (LEHMAN) CLARENCE C REED, M D

Krabbe, K. H. Facial and Meningeal Angiomatosis Associated with Calcifications of the Brain Associated With Cancelland Anatomopathological Contribution Arch Aeurol & Psychial, 1934,

The clinical association of angiomata of the face with angiomatous modifications of the pia mater and cortical calcifications is described as representing a ciated epilepsy, and frequently the patient is considerably overweight Other frequent symptoms are clinical entity mental debility and a slight spastic hemiplegia on the side opposite the facial angioma X-ray examination reveals a characteristic shadow within the skull-a distinct sinuous shadow presenting exactly the shape of the surface of the brain and showing the gyri and sulci, often with double contours, shadow is most often localized in the occipital lobe The first report of a case to be published was that

In 1921, Wissing described a roentgenographic shadow in the right occupital lobe in an unpublished report Another case report was of Weber in 1922. published by Dimitri in 1923 Since then several reports have appeared Cases of massive calcifications associated with angiomata of the brain have been recorded but only a few have shown the characteristic sinuous shadows corresponding to the brain surface which were originally described by Weber and Dimitri In the previously reported cases of the latter type histological examination was impossible as

Krabbe reports five cases, in one of which a none of the patients died pathological examination was made In four of the five the lesion was wholly or mainly in the occipital lobe In the fifth it was in the parietal lobe

The histological examination showed that the shadow was due to calcification of the outer layers of the cortex, not of the pia mater, which seemed to be abundantly vascularized but not truly angiomatous The calcification consisted of numerous small, mostly microscopic, granules of calcium salts, localized in the second and third layers of the cortex The nerve tissue in these layers had been in great part destroyed and replaced by fibrillar neuroglia The occipital lobe was shrunken and sclerotic rest of the brain was apparently normal except for very slight changes in certain areas

The author believes that the changes in the brain are probably not secondary to angiomata of the pia mater, but related to a more generalized malformation of the organism This consists in the formation of angiomata of the face, slight angiomatous changes of the pia mater, and aplasia of the occipital lobe with sclerods and calcification of the splastic part. The realformations probably originate in Istal life. The only therapy inducted is symptometric treat.

The only therapy indicated is symptomatic treat ment for the eplicptic sciences and mental hygiens

for the mental delects.

The name Weber Dimitria disease is suggested for the condition if it is proved to be a separate entity Eswand 5 Platt, M D

Factors, R. A.: Disgnostic factors Concerning Harpes Zoster Oticus. J Am H Arr 934, cm, 443

It now seems generally agreed that the infectious agent in herpes soster is a filtrable wires which enters the body through the none or resopharyar lested of the akin. This virus involves the nerves and leads to an according or a descending infectious process with definite serium reactions and antibody formation.

Involvement of the eighth nerve is characterized by vesicle formation which may be limited to the posterior all of the external auditory meatus or manifested by only one or two small lesions on the concha or mustold, pain which occasionally ceases when the vesticles dry up, but usually lasts for weeks and sometimes for months enlargement of a pre-auticular lymph node and occasionally of masterd, cervical, and parotid lymph nodes, ices of tactile scambility and sometimes vesicles on the anterior two thirds of the tonane, the anterior reliar of the fauces, or the soft palete of the same side Facial paralysis may supervene four or five day later. In pure instances it occurs comesdentally with or procedure, the cruption. The usual delay of several days in the development of motor erusptoms supports the generally accepted theory that such symptoms are due to secondary pressure on, and militra tion of motor nerves passing through the bony canals, foremos, or dural envelopes

Vestibular and divery symptoms, moderate servine, shight deshores, and busing gother may precede the eruption by several days or develop similar theorethy with in The duzzenes, which is of a transitory character, is usually several morphing has the distributions of bearing Verson combination of the complete several development of the cightle cranical bearing the complete several bearing the complete several properties.

The following types of berpes source official, way find in sevently are recognized in a way mills super-ficial type situedating coresus, (a) a very severe type situedating coresus, (a) a very severe types with meadingst symptoms, (b) a type with decident seamtestations resembling gryupolas and followed by facial palay, and (c) a type with acchiever westbalar disturbances which may be very severe and its followed by rectafal paralysis in about 11 per cast of

cases. The condution must be differentiated from percetral swelling due to mantachtis, orderns from inrementions, accusas, cryspales, fungued exemus of the metall epithelmon, intracraski hierarchige and thromhous, encephalits, menumpith, and intracrasual transors and abscusses. The treatment indicated is largely symptometic although servan from cured case as stated it rehers or shorten the duration of the postherptic pain. Sometimes and state of the postherptic pain, best of the pay the foreign proteins and subhemotherapy may be of value. Ultravoide fruitation, local drying treatment, and co-ministration of the spheropalation region are recommended.

June William Error, M D

#### SPINAL CORD AND ITS COVERINGS

Borchardt, M.: Kyphoscollosis and the Spinal Cord (Kyphoscoloss and Roschmark), Science and Walencher 1934, 613

Symptoms of transverse lesion of the spinal cord which in the course of few weeks lead to speatle persplagis of the legs, sensory disturbances, and occasionally also to biedder and rectal disturbances occur more frequently in commental acobouts than in rachitic acollods. They are most common is the second decade of file, the period of most rapid growth The neurological findings show considerable of ferences from other spinal-cord conditions. Characteriatic of late acobotic injury is the rapid development of severe sensory disturbances of all types. In contrast to the transverse myelitis of speedylitis. the individual functions are not completely destroyed. The hypersensitive some lound in cases of tumor is absent. At operation on young persons with lat acollectic injuries, an abnormal tension of the dura is always found. After incluion of the dars, the cord protrades and as rule cannot be entered again Nevertheless, the operative results are usually good When the dura is sutured under tennos the condition becomes some

Borchardt has observed three cases. The first was that of an old woman in whem spansi-cord symptoms associated with scollows were doss to an utraducal, extramedullary tree spansi cord tamor. Operative removal of the tumor ses followed by recovery

In the second case, that we a fourteen-year-old load with retime to schools, were symptoms of spin-cord injury began without a paperent case during the period of most settler provid. Hypersulfagus and hyperalgais were found on the right skee from the second cereal to the forth dorsal virties as shown the trenth dorsal to the fifth secral vertebras, and on the left node from the forth dorsal to the tenth dorsal vertebra. Expected lemba punctured ware followed by cure. On the base of the chaical picture the conductors as believed to be uncusabled expected except on an believed to be uncusabled expected except the conductors.

The third case was that of a man forty years old who had very marked hyphosecolous? Sween symptoms of councemon myedine appeared sodemly. On surpelarping-increasastons the injudent remained at the point of greatest exercise. Open the council of the point of greatest exercise. Open the council her marked to be greatly native of the force of the course to be considered to be greatly native of the course to be definitely pushed. The draw was not under tended or a public option.

adherent to the spinal cord. After it was opened, it auncient to the spinar toru. Arter it was opened, it could be sutured easily without tension. Postoperative healing was uneventful Two months later the patient died of decubitus, cystopyelitis, and bron chopneumonia chopne compression my elitis to be a localized ostellis fibrosa of the Recklinghausen type with cysts and brown tumors of the muth and tenth dorsal vertebræ, destruction of these vertebræ, and compression of the

Borchardt agrees with Jaroschy that the transverse myelitis in severe scoliosis is due to a disturbverse myenus in severe sounds is due to a distinct to ance of the blood and lymph circulation incident to the scollosis As the result of venous stasis and swellcording of the cord, the canal becomes narrowed and ing of the cord, the canal becomes harrowed and drainage is obstructed. The frequent narrowing of the canal at the vertex of the curvature and the torsion of the dural tube are also damaging. In cases with mild symptoms of irritation, rest in bed or the waring of a corset should be prescribed. In more nearing of a corset shound be prescribed in more advanced cases Glisson's hammock is indicated and advanced cases Onsson's naminous is indicated and if there is no improvement after two months lamined (TOBLER) LEO A JUHNKE, MD tomy should be done

# Salman, A.S. Chordotomy and Its Late Results

The therapy of pain is one of the most interesting Attempts have been made to relieve pain by transverse myelotomy, but the operations which have been found of most pracproblems of neurosurgery the operations which have been found of most practical value for this purpose are performed on the

Tollowing the studies of Brown-Séquard and sensory tracts of the spinal cord Gowers on the physiology of these tracts, the first chordotomy was performed by Martin in 1911

From the literature since that time the author has collected 720 cases in which this operation was per-

At first, chordotomy was done only for pathological processes of the lower extremity as surgeons feared lesions of the nerves of respiration in 1927 Forster performed a unlateral chordotomy and in 1931 Stookey Performed a bilateral chordotand in 1931 Scooney periorined a unateral chorder only at the level of the second and third cervical segments without causing disturbances Rotmann performed the operation in cases of inoperable tumors and Schuelter performed it in cases of tabetic crises During recent years the indications have crises During recent years the indications nave been extended to include all pathological processes causing pain

The author performed fourteen chordotomies on thirteen patients The indications were inoperable carcinoma of pelvic and abdominal organs, sarcoma of the pelvic bones, traumatic injuries of the spine, post-amputation pains, trophic ulcers, and syrin-The operation was done under ether anæsthesia in

gomyelia

nine cases and under local anæsthesia in four incision of the anterolateral tract was 3 mm deep By unlateral chordotoms, total analgesia was obtained in ten cases. In one case analgesia of only by unnateral choruotom), total analgesia of only obtained in ten cases. In one case, analgesia of only the foot, and in the last case no analgesia was obtained In the cases in which bilateral chordotomy was done the evaluation of the results was very The failure of some interventions can be explained by anatomical variations in the anterographical tractions and the same of some mice ventions of the same of some mice ventions of the same o Explained by anatomical variations in the antero-lateral tract and also, as suggested by Forster and Hagel, by the fact that this tract may become in-

As a rule thermal sensibility is also lost in the corporated in the posterolateral tract area of analgesia According to Robineau, this is an

area or analysis According to Roumeau, and B are indication that the operation was performed con-The other forms of sensibility are not affected In some of the author's cases the level of the anæsthesia changed after the operation In one case it was two segments lower fifteen days after In some cases sensibility was restored, but was weaker than before the operation Among the possible complications following chordotomy is paralysis of several muscles from injury of the pyramidal tract This occurred in three of the author's cases In nine of the author's cases there were disturbances of the urinary tract Chief among

Microscopic examination of the spinal cord after these was retention of urine chordotomy showed partial necrosis and other lesions of the fibers attributable to the operation These changes are responsible for the high postoperative mortality Other causes of postoperative death are

Of the author's patients, one died of acute meningitis twelve days after the operation One patient shock and infection with sarcoma was still alive fifteen months after the operation, but another died seven months after the Six patients with carcinoma died after from one to five months operation from multiple metastases In one case of post-amputation pains the results was satisfactory and stable, but in another the symptoms recurred six months after the operation and in a third the late results were poor

#### SURGERY OF THE CHEST

#### CHEST WALL AND REPART

Levia, D and Guechickter C. F.: Gymecommette, Yirginal Hypertrophy and Fibro-Adenomata of the Breast Ass Surg. 934, on 779

Careful histological studies of the breast times is acted or gracecomastic, virginal hypertrophy, and show-adecomas of the breast revealed default analysis of the contract and suggested that these conditions may have a common estological factor. All seems to be defaultly related to the aversprednetion seems to be defaultly related to the aversprednetion or times of the default o

Gyneconstria, or abnormal enhancement of the main ammunery gland, if does no prollectuce of the ducts and a increase in predictal tissue, and has been observed in many cets of cheric-publiclean and tentoms of the tetticle. In most of these cates the union was found to contain both Prolain B and certain. Gyneconstatia is often associated also with Gyneconstatia in often associated also with been found in case of timore, of the hypophysical and of the supervised gland. It as by produced are of the operation of the produced are perimetally in monkers by the injection of solu-

ioos of varying amounts of estans. Virguals brystrophy, histologically similar to graecomastus, seems to be definitely related to the proposery front of the season of the breasts to sea dimension. The local response of the breasts the season of the seaso

tologically t those of the two other conditions.

Fibro-adenomata are relatively common during the sex life of women. Significant features in the series of 480 cases studied by the uthors ere

The association of solitary fibro adenomata with diffuse enlargement of the breast (virginal hypertrophy) a The slow prolonged growth, averaging from

three t four years, and the tendency foward involvement of a secretion of the breast or the forms tion of multiple tamors.

The tendence of the timors to preser during

The tendency of the tumors to ppear during puberty or prepaincy

4 The similarity of the histological changes to those observed in gynecomastia

Most of the percents were between twenty and twenty five years of age. About one-third of the tumors were tender. The tamore increase as size rarely during measuresticos, but not targeopoutly during pregnancy. Early tumors are of a loose mynomiators structure with those of longer distribution are more soldly affects. Microscope studies organt that filter denous formation is essentially an exaggerate puberty hypertrophy. In most filter adrenomate no acus formation is found and the histological changes resemble those seen in gracomastus. Determination of the amount of contrib no one not tumor revised nearly on times as such as in obtained from the oratics of the sow, a finding which negrets that the times in cripable of heading or concentrating the hormone. The fact that proberty we the latter part of represent so the reported property of the latter part of preparancy about the amounts of certifs are increasing, is also regarded as

Geschickter G. F., Lawis, D., and Hartman, C. G.: Tustors of the Breast Related to the Garrin Hormons. Am J. Casco. 914, 516

Gynecomastia, virginal hypertrophy and fibronedoms of the heast are quite under pathologiculty. They all selve periducial and dividual hypertrophy and hyperplasts of the epithetial being and begin in the pre puberty period. They are considered by the thors as variations occurring in response to the oversion homose, extrin

Gyaccomastla was produced in male monkey by the injection of from s,000 to 5,000 rat units of central

Prolonged and uninterrupted stimulation by central is more effective than number of anull repeated doses.

During the pre-pulserty stage (from the tenth the filteenth verse of age) the femile breast is under constant stimulation by numerous repening and treate folicies in the oversy which secrete train or thesin and frequently presents receptlar thackened agest

Most files admonst have there onset during the same period, though not seeted clinically would later. They show the same hypertrophy of the stress without acts formation. If they give rapidly there is usually protiferation of loose embryonic on nextly these surrounding the epithial lining, the occilled intrinculalization my soma.

Some filter-adeaconat develop later in the Their formation may begin thin g prepaise; or their growth may be stimulated by prepaise; during which condition menticulation is because and the anomarization of cutton is increased. They have never been known to begin after the memojanus. Once formed, they do not involvite under the infla-ment of messignature than a superior state of the superior of the superior than the superio

On analyzing fabro-sciences, Geschickter lound that I contained forty five times as much central as the normal hog overy. It is evident, therefore, that fibro-adenomata have a marked ability to concentrate the hormone.

Cystic disease of the breast is most common in childless women during the period of life when the level of ovarian hormones changes repeatedly with each menstrual cycle. It shows hypertrophic changes in the duct epithelium similar to those occurring in fibro-adenomata. It may appear also in fibro-adenomata of long standing.

Virginal hypertrophy results from an abnormally high estrin content of the blood. Fibro-adenoma is due to increased amounts of estrin in the blood acting on a hypersusceptible tissue which has the capacity to concentrate the hormones at the site at which the tumor develops. In cystic disease the breast is subject to similar hyper-stimulation by estrin, but the effect, which is not so pronounced, is transient, recurring with each menstrual cycle, and is complicated or diminished in involutional changes accompanying each mensturation.

During active sex life the tendency of increased cestrin stimulation is to cause subinvolution and cyst formation. As the menopause is approached the involution changes are exaggerated and spontaneous cure of cystic disease may result.

Experimentally, Geschickter has been able to produce microscopic changes resembling cystic disease, but no cysts, by repeated injections of æstrin made at intervals

Fibrosarcomata are tumors showing all grades of malignancy, usually arising from pre existing fibroadenomata, and most always appearing at the menopause. At the menopause there is a marked rise in the secretory activity of the anterior lobe of the pituitary gland. This suggests a synergistic relation between the hormone of the anterior lobe of the pituitary gland and cestrin.

In the diagnosis of a doubtful tumor, determina tion of the cestrin level of the blood (Frank method) may be of value Softening of gynecomastia has been obtained by repeated injections of prolactin, the milk producing hormone Geschickter hopes for comparable results in fibro-adenomata

HARRY C SALTZSTEIN, M D

#### Overholt, R. H., and Eckerson, E. B. The Treatment of Cancer of the Breast and the Results of Operation New England J. Med., 1934, 211 703

The authors present an analysis of 719 cases of lesions of the mammary gland which were admitted to the Lahey Clinic in the period from 1923 to 1933. They emphasize the importance of very early diagnosis of cancerous and precancerous growths by routine early removal and microscopic examination of all mammary tumors and lumps. They have found that studies of front and profile photographs of breasts are of material aid in the recognition of early masses. The relation of palpable axillary lymph nodes to operability is discussed. The authors have decided that patients showing no involvement beyond the breast and axilla should be treated by radical mastectomy.

In chronic cystic mastitis they excise any discrete palpable tumor and examine it histologically. In 12 per cent of the cases of this condition in their series there was evidence of intraductal hyperplasia, which is regarded as a precancerous condition

Simple mastectomy is advised for all cases of sanguinous discharge from the nipple in which an intraductal papilloma cannot be demonstrated. Thirty per cent of patients with a bloody discharge have been found to have carcinoma.

In the authors' cases all benign tumors and cysts are excised and examined histologically

Routine postoperative irradiation is employed in all cases of breast cancer, and metastases and recurrences are heavily irradiated.

The various breast lesions in the cases reviewed are classified with regard to type and frequency, and the results obtained at the end of five years in 62 cases in which operation was performed for carcinoma are tabulated and discussed The authors find no striking difference in the degree of malignancy of growths in young and older patients

JAY E TREMAINE, M D

# Fox, S L Sarcoma of the Breast 4nn Surg, 1934,

The author suggests a classification of mammary sarcomata based on histological and anatomical features which can be used by the surgeon as well as the pathologist. He divides the tumors into the following four main groups fibrosarcoma, neurogenic sarcoma, lymphoid and my eloid sarcoma, and non-indigenous tumors.

Fibrosarcoma may originate from the interlobar connective tissue Sarcomata of such origin are similar to those seen in the fascial sheaths of the skeletal muscles of the body They are solid tumors which may undergo cystic degeneration and are often encapsulated Fibrosarcomata of another type are derived from pre-existing fibro adenomata. Histologically these tumors resemble closely sarcomata of the fascial type except that they show numerous groups of acini and lobules Because of their benign origin many of them are encapsulated. The third and most common type of fibrosarcoma is the serocystic sarcoma of Brodie which is secondary to an intracanalicular fibromy roma In this tumor there is a proliferation of the intralobular connective tissue which projects in papilla-like masses into the ducts, compressing the latter into narrow epithelial strands

The sheaths of nerves entering the breast may give rise to sarcomata of a very malignant type Tumors of such origin usually grow rapidly. They are very invasive, destroying the breast as they advance. The melanotic sarcoma and the perineural fibrosarcoma belong to this group.

Lymphoid and myeloid sarcomata arise about lymphatic plexuses and aggregations of lymphocytes within the breast or about outlying glands. The myeloid sarcomata consist of round cells which have more cytoplasm and larger nuclei and are lighter staining than those of successia of the lymphoid type. These re undoubtedly related to similar tumors of bone-marrow origin.

Among the suthor's exist of mired and nonindigenous tumors of the breast there ere to of glant-cell tumor one of oxecopatic surcoust and one of liposurcoust. The perithelial surjosurcoust and pseudosurcoust are excluded from this group.

For reviews dry cases of sarroms of the breast. The patents ranged in g from thires to serving free year, but the greatest number were bettern the sage of leaf-year and fifty five years. Only two of them were nulses. All except four gare. Indeed, the patents of times of the breast. Five gave a history of traums and twenty two a history of pain and rapid growth of the neoplasm. The length of time the transor had been present ranged from one day to materiary year. In none of the case except those of Group 3 was metastated involvement of lymph glands demonstrated.

In discussing the disposits the author says that, except in cases of lymphoid and my lodd surrous, involvement of lympho glands is suggestive of carticoness. Expectally in the bennes of nectuasis to lymph glands, large bully tumous are very likely to be surrounts. In this author's relies of cases there is successful in this author's relies of cases there exists the surround of th

Irradiation often inthe except in cases of lymphonic and my cloid arcona which are nedboensitive. However, pre-operative irradiation is advocated because it is impossible to distinguish the rediscipative from the indioceasistant forms. If the transfor becomes released to a dist very repetity under structuralization, hymbosureous about his surjected.

Operation is the treatment of choice. Since extension occurs to the pectoral fascile rather than to the aniliary glands, both pectoral imagines and fascile about the removed. Artifary dissection may be omitted. Enucleation or artiston should not be performed even if the tensor us encapsulated as settension of a sarroma Irrequently occurs along the blood vessels through the capsule.

In general, surcount of the breast has better prognous than cardinous. Sucrous secondary to a beings tumor has a better prognosis than princary surcount, and throsarrooms a better prognosis than neurogenic surcount. In case of throsarrooms the chances of our are slightly higher for flow-admonia.

chances of cure are sugnity nights for night-administhan for surcome of the fascial type.

East O Lamore, M D

#### TRACHEA, LUNGS, AND PLEURA

Foster J M. J. and Prey D. The Treatment of Acute Treatment Classicotheras. Ann. Sey, 934, 00 402

The authors present a conservative method of treating acest transatic homothorax by which septic complications are roaded and the time of homotralization is decreased by half. The procedure

constitute to the dimilitareous aspiration of the blood and the introduction of enough air to raise the lasts plenarl pressure to +7 ca. of a test or above. The aspirations are begun immediately and repeated canti all of the blood has been removed and replaced by air. Their number and insquency are determined by the findings of rountpendagical examination for

field and further bleeding.

The treatment described is of while in all cases or copt those in which a large blood vessel has been exerted with reasoning that a casts consumerious in cases in which only mattler vessels have been blood loss may be readjected. Collapse of the blood loss may be readjected. Collapse of the historia maintained: degree sufficient to allow heriting it maintained: degree sufficient to allow heriting of maintained it degree sufficient to allow heriting of the highest part of the first which is not a sufficient to allow heriting of the highest paying of the high paying high sufficient high paying high sufficient high paying high sufficient paying high sufficient

#### Harn, H. J. Organic Foreign Bodies in the Brunchi The Reaction of Lung These in Rabbirs. Arch Ottlerpagel 934, 30 140

The author introduced various solid organic learly nodes into the branched or shelds and after cet tau periods of time tilled the salmats and carallaced he may time. The gross presence of the large rance from the properties of the salmats and carallaced to the salmats and the large from the consideration in the salmats and the length of these the broaches was obstructed. The most intense reaction was noted in hung into which peanuts, part of the pepper tree, or poposes had been introduced. The second of direct fruits fruits from the salmats and the salmats are second of direct fruits fruits fruits and the salmats are salmats are salmats and the salmats are salmats are salmats and the salmats are salmats and the salmats are salmats are salmats and the salmats are salmats are salmats are salmats and the salmats are salma

Efficience learning those it macra showed that the response was progresses a do consisted of exidation and prolifers box accounting amultiancounty. The exceptive restrict resource consisted of the posture out of large, sendlen, irritated septel cells into the particular control of the control of the posture of large, sendlen, irritated septel cells into the particular control of the particular control of the particular complexity of the particular control of the particular complexity of the particular control of the particular complexity of the particular control of the partic

as hasted to the mmediate registerior of the larger broach and extended outward. The rapidity of this expension was apparently in direct proportion to the degree of the imitation.

The accordary charge in the lung was all will localized, acres a lokar positionous if it occurred on the third and fourth days in large containing the most unstalled feeting bodies. The varieties charge was unformly that of an obliterating attents from a credit point of the control of the control of the acres, the charge in the accordant of the point of the control of the point of the control of the control of the point of the point parenchyma. Frank capillary hæmorrhage in the alveolar wall and, to some extent, hæmorrhage in the alveoli was found in lungs containing pop-corn, the bark of the eucalyptus tree, watermelon, grapefruit, and orange seeds, and peanuts

Similar changes were present in the opposite lung

which contained no foreign body

In the author's opinion, the primary cause of drowned lung is a too rapid and excessive outpouring of mucus and exudate in the presence of a decrease in, or loss of, the cough reflex

EARL O LATIMER, M D

Sergent, E, and Mamou, H Cases of Pulmonary and Thoracic Mycosis (A propos de quelques cas de mycoses pulmonaires et thoraciques) Presse méd, Par, 1934, 42 1497

The clinical manifestations of pulmonary my cosis are varied and numerous and may suggest such conditions as tuberculosis, syphilis, cancer, abscess and suppurating cyst. In a case of aspergillosis reported by the authors with Gaucher and considered originally to be uncomplicated, the presence of a complicating tuberculosis was eventually discovered. To rule out complicating infections in cases of my cosis all resources must be employed including inoculation of a guinea pig to eliminate tuberculosis. Various cutaneous and serological reactions have been devised, but their interpretation is often difficult. In some cases it is necessary to rely on clinical observations and the response to treatment with iodides.

The first case reported by the authors was that of a previously well woman thirty-two years old who sought treatment for severe hamoptysis and a purulent expectoration. A roentgenogram showed in the left para hilus region a cavity containing air and fluid This was believed to be of tuberculous origin, but no bacilli were found. Artificial pneumothorax was without benefit. When the patient was first seen by the authors two years later the thoracic condition was unchanged and there was a history of the appearance of lesions on the lower extremities The lesions consisted several months previously of cutaneous nodules which, when incised, yielded a gummy exudate Bacteriological examination of a lesion which still remained on one foot over the tendon of Achilles was negative. The Wassermann test was likewise negative. A mycotic infection being suspected, intensive iodide treatment was This effected a complete cure which was given maintained for three years Recently there was a relapse which was apparently favored by secondary infection and permanent anatomical changes in the Because of the skin lesions the etiological agent was believed to be the sporatrix

The author's second case was that of a student who presented a florid skin, a generalized lymphadenopathy, and an extremely large spleen. The lymph nodes were small, firm, and painless Physical examination was otherwise entirely negative and there was nothing in the history to explain the

splenomegaly Because of the huge proportions of the spicen, spicnectomy was done The spleen weighed 2 kgm On microscopic examination it showed a sclerosis with Gandy-Gamna nodules which are regarded by some as mycelial formations After an interval of perfect health the patient began losing weight and appetite and developed night sweats, a cough, and an afternoon fever tubercle bacilli could be demonstrated in the spu-Roentgenograms showed evidence of consolidation in the base of the right lung. From the sputum, blastomycetes were isolated and identified by culture Intensive iodine therapy resulted in clinical and roentgenological improvement approaching cure

The authors report also two cases of thoracic (non-pulmonary) actinomycosis which for a time had been treated unsuccessfully as tuberculosis and in which induce therapy led to rapid cure

ALBERT I DE GROAT, M.D.

Debré, R, and Gilbrin, E. Gas Cysts of the Lung and Bronchiectasis (Sur les Lystes gazeux du poumon et les bronchiectasies) Presse mtd, Par, 1934, 42 1113

Gas cysts of the lung were for a long time regarded as curiosities of no general clinical or pathological interest, but recent studies of such cysts have added much to our knowledge of the common disease, bronchiectasis

The essential clinical feature of gas cysts is dyspnote which occurs in paroxysms during the first few weeks, months, or years of life and less commonly at an advanced age The younger the patient the more violent are the attacks Previous to the onset, the patient presents the picture of good health, as is often the case in the presence of congenital anomalies in other parts of the body. The latency of congenital anomalies is explained by their slow evolution. The symptoms caused by gas cysts of the lungs call attention immediately to the thorax and examination reveals physical signs which are identical with those of pneumothorax, namely, hyperresonance, absence of breath sounds, and displacement of the mediastinum The roentgenogram discloses the nature of the condition, showing absence of collapse of the lung and the presence of rounded clear areas surrounded by dark bands which give them a rounded or polycystic outline The clear areas are traversed by the shadows of vessels or cyst walls

The evolution of the cysts is variable as is indicated by the variations in the clinical picture. Frequently the cysts remain stationary and the symptoms are more or less latent. Again, the cysts may enlarge progressively, causing disturbances eventually incompatible with life. When they are of large size from the beginning, the result is stillbirth or very short survival. Other possibilities are rupture into a large bronchus, the fusion of several cysts, and

suppuration

The structure of the walls of the cysts reveals their origin, all of the elements constituting the normal

broaches being found. The formation of the pounds appears to be brought about by a hypoplasia of the stato times and, more superisst, a hypoplasia of the broachial necess with the formation of veritable action to broachial bads instead of the abreoid which would device punder pormal conditions. Years deformation occurs to the form of the appearance.

According to the authors theory of the relation of broachiectasis to say cysts, an milleldual with a latent or fraste form of chatle disease of the lanes. develops a paramonitie which precipatates the armptome and the physical signs of bronchecteris anthors believe that only in this way is it needble to explain the laren bronchiertatic cavities which de veloo fo children after such brief diseases as scarlet fover and influence, and their freemency in the absence of a history of serious buittonery disease. As secret to chronic bronchitts the disease is rure According to the authors theory the consenital cysts which are often incompatible with life are monstrong forms of broachiolectasis which is the basis of the clinically well-known and not infrequent brouchlecters ALBERT F De GROAT, M D

Rienhoff, F. Jr., and Broyles, E. h. The Surgical Treatment of Carcinovan of the Bronchi and Lumin. J Am H Am. 934, 03

The authors describe a technique they have developed for possumoacterup and report two case-veloped for possumoacterup and report two cases which twas used seccessfully. Before the operation is performed, surfided possumotheour is missed to see your propose (1) to render the patient accrusional to breathing with only one lung, and (1) to eable him to become adapted to the altered conditions of intrabloratio pressure that a worth darding and after

the operation The bilins of the lung as pproached through sa incision in the autenor thorstic wall and is completely exposed so that enstormed dissection may be performed carefully. The pulmanoary artery and weins are lurated independently. As these vessels lie for the most part ventral to the mare primary bronche, they are cared for at the beginning of the operation to prevent excessive loss of blood. Early light tion of the verse is of advantage also because it decreases the danger of air embolum and the spread of metestams by a v of the blood stream. The approach to the operative field through the third inter costal space antenoely permits desection of the lymnh gands of the hitus and of the postence medastinuM.

The brotchus is closed by catting the cartilage ring at several ponts in its circumference and estaring the murcost and wall separately. The authors have found that cautemation of the brotchus is apt to cause shoughme.

The authors believe that thoracoptisty is ennemisary. They state that preservation of the normal theorec cage is an important factor as the compensatory restitution. The thorack cage serves somewhat as a nachor t. which the heart and medications are attached by fibrous bands. Part of the remaining pneumothorax cavity becomes filled by the gradual compensatory expansion of the remaining lung and the rest becomes gradually obliterated by the forms tion of multiple filtrous bands

East O Lamete, M D

Monod, R. and Denirions 3: Ringle-Stage Lubertomy with Open Plears (Le Jobertown, rapleys labet, on an tempa). Bull of new Sec and de ther outs to one

The authors prefer lobectomy to the cautery posumectomy of Graham, the fragmentary presmentiony of Baumparines and the emcoperamectomy of Coquelot as the latter procedures limit exploration of the thorax, are often incomplete and are generally immificient when the leadons are mail-

this or descentiated as is bronchictush. In describing the technique of belocitiesy they discuss three major problems, who the doesnot of benefice, the treatment of the piecure, and the obliters than of the remaining ravity. They true the experimental and others developed to the theoretical contribution of the developed to the treatment of the developed to the

Icro achook

They report four cases in which lobectomy was
done The of the petients died. The autopsy findlags and the cause of death in the intel cases are
discussed.

Following the case reports the a thora referbriefly to their experimental studies which have proved the lessibility of lobectomy and even of considers onesmostomy

The report is protucely allustrated and is discussed by Prosit, Maner, and Moure

NAMES A WOMACE, M D

Privin, G.: The Problem of Severe Cordent Ryontoms After Operations on the Pleurs or Lung (Sar Fuge adverer sewheater Symptome In Operationes as Picara oder Lunge) into chemp. Scent. 244-74.

Petrén reports three cases sa which cerebral symptoms developed after an operation for empyone and pulmonary impountion, and docusses arterul air emboh as a consulive factor.

In his first case the symptoms developed toleraing an attempt at the localisations of a large because may not strong at the localisation of a large because show had been catabilated by the small technique On withdrawal of the needle, the patient medically looked all, the pulse bottom weak, and there as a temporary loss of concressesses. Homephora and factal paralysis then developed on the left side and speech are regrand. Latter convalide the state of speech are regrand. Latter convalide and the state of a sale t, in the right lower look, and beast experient. It holds pure Essimilation of the brain yielded no explication of the seven

The second case was one of empyema Tollowing drainage, the patient became pale, perspired freely, developed a hemiplegia on the right side, and beueveloped a nemiplegia on the right side, and became blind, but recovery resulted after several hours came unnu, out recovery resulted liter several nours.
The eve grounds were found normal Examination of the visual fields disclosed a left homonymous Later, the hemianopsia in the lower quadrants

In the third case there was an emprema cavity with multiple bronchial fistule and bands and strands visual fields became normal of tissue, Following ligation and severance of the of assue ronowing ngation and severance of the bands, the princit lost consciousness, the pupils failed to react, and there was a change in the respiration After closure of the wound there was loss of vision Cramination of the eves five hours later revealed diminution of light perception, normal eve venued diminution of fight perception, normal ever grounds, and a left homony mous hemianopsia. Subsequently improvement occurred

These phenomena have been attributed to pleural reflex, pleural shock, epilepsy, and eclampsia When Torlanini, in the nineteenth century, advocated artii orianini, in the nineteenth century, advocated attri-ficial pneumothorax for the treatment of pulmonary tuberculosis similar complications were reported Brauer concluded that sudden death assoported brauer concluded that sudden death asso-ciated with such phenomena is due to air embolism According to others reporting fatal cases with these Symptoms, changes have been found in the brain when death did not result immediately

On the basis of his own cases and the cases re on the basis of his own cases and the cases reported in the literature the author concludes that air embolism is the most probable cause of the cerebral symptoms In 1921 Schlapper expressed the opinion symptoms in 1921 Schlapper expressed the opinion that indurated lung tissue lends itself to this accident as the veins in fibrotic tissue stand open be-WILLARD VAN HAZEL, M D cause of the adjacent scar tissue

# SURGERY OF THE ABDOMEN

# ABDOMINAL WALL AND PERITONEUM

Pampari, D. A. Case of Multiple Ventral Herniss Spieger Herniss with a Concontent opinger. Harnin with a Concomitant Strangulated Umbilical Hernia (Sq d; us case di Strangulario Unionical munica (ou oi da caso di Cran ventrale multiple, erne dello Spirelo di Concoccidante erris condellicale stromata). Arab

Pampari reviews the literature Opinions differ as to the relative importance of the various canadire factors became of the rarity of the condition (only eighty-eight cases have been reported) and because most of our knowledge re garding bernia of this type is based on observations made t operation. The majority of those reporting matra Coperation And Inspectify of those reporting such bernie have attributed great importance to the vascular foramina in Spiegel's line and an anomaly of the perforating branch of the inferior epigrattic rtay According to others, the lacence at the point tury according to others, the mount of union of the muscula and poneurotic fibers of the reassernalls are of greater importance. According t a third group, the chief factor is the dissociating section on the apparamente obers of accumulations

The author's case is of special interest became of the association of an extremely large umbilities tos amountou or ar carrent and a superior bernis with three large spacetian norms. All of the hernis were irreducible. The patient was woman herms with three large spacetims norms: An or the hermic ware irreducible. The patient was woman fifty two years of age. The large umbalical hermic and been present for many years. At operation, more than a meter of atrangulated bowel in the umbilical sac was resected

According to the operative, autopsy, and histo-logical findings, the abdomen was divided int deep and meen reduced cavity—the true abdominal cevity—and a much larger secondated subcutaneous portion representing the hernie. The former contained the duodenum, the first part of the deam and the last half of the large intestine. The rest of and the trac near or the sarge microsine. The trac or the bowel had encaped through the unfullical ring and the foraming in the region of Spicet line on the right side. The first of the ventral hernia contained loop of small intentine the second, the last part of the ileum and the cecum and the third, portion of the ascending colon. Apparently one saming occurred through Assemble obsume white sering occurred through vascular opening, while formation of the two others was favored by dissociation of the ponegrotic fibers or by congenital atom or the pomentous mens or by congruence lacone. In Pamparl' opinion the propertioned fat is the most important factor in the formation of such to me more important action to the formation or some hornile as in its gradual growth it enlarges the was norme as in its granton growing in contract of contract for annual and currence experience of the contract of

Afferoscopic examination of the belominal wall ahowed advanced muscular trophy with fibross replacement and marked fatty infiltration

The article contains illustrations and is followed by bibliography

Bardesco, N. Occade Epistastric Harris (Sur la barne (regnatrique occada) Rev de chie Fac 934, El 559

By occult epigastric hernia the author means the small herms which occur in the midline between the riphoid and umbiliers, can usually be felt only with difficulty or not at all, and are often the came of abdomined symptoms out of proportion to their size He reports clares cases with major gastro-interdinal He reports cornes came with mayor generosticisment distintioneers which were competely cared by each sion of the bernial sec followed by repair of the defect of the defec some of these cases the symptoms were t first an are or these cases the symptoms were than a sampled to alcer of the stomach in one, to carchioma assumed; user or insurement in one, to prendictle and in one, to intestinal obstruction. In four there was severe interimat controction in four tacte was severe harmatements. In only five was the barnle recognized before operation although it was sought for carefully in all. In mose of them was any pathological change found in the gastro-intentiaal tract at laparotony

The hernie varied from the size of a pea to that of an ollys. Apparently none of them was a so-called an ourse. Apparently uses of them and a sac

In decreasing the difficulty of finding the her nia on clinical examination, the author advance examination of the patient in many different posttions, with careful palpation along the midfine between the riphoid and ambilious. Frequently only tender spot can be found. H emphasizes the fre quest similarity of the symptoms caused by such berme to those of uker of the storach. In most of the cases he reports the pre operative disgrees was the cases as reports the par operative magness are based on clinical findings not supplemented by those of roentgen examination.

Max M Zoromens, M D

### GASTRO-INTESTINAL TRACT

Gray, H. K. Ralfour D. C., and Kirkhn, B. R. Concer of the Stomach. Am J. Cancer 914.

This article was prepared at the request of the American Society for the Control of Cancer as one of series of monographs on subjects of interest and importance to those engaged in the diagnosis and

The authors call attention to the fact that cancer of the storach cames more deaths than cancer of any other organ and in the majority of cases seen by the surgeon is too far advanced to permit complete removal of the involved tierre. In spite of the perarmon which has always existed in the minds of members of the medical profession and laymen, experience has shown that a malignant process

in the stomach may be cured if it is diagnosed in the stomach may be cured in it is diagnosts has early in its growth Roentgenological diagnosis has made possible the recognition of cancer of the stomach in its earliest stages, and such an examination should be insisted upon for every patient with symptoms suggesting a pathological gastric change symptoms suggesting a pathological gastric change which do not subside rapidly under treatment with The authors believe that as une usual rememes The authors believe that as surgical removal of the lesion offers the only possibilsurgical removal of the lesion oners the only possible ity of permanent relief, exploration is warranted in any case of cancer of the stomach unless the condition is clearly incurable because of distant metastasis or unless the lesion itself is definitely inoperable as or unless the resion reserving the moderation evidenced by the findings of roentgen examination

The authors review the etiology of the condition, the age and sex incidence in several large series of cases, and the many methods which have been suggested for the diagnosis of gastric cancer gested for the most outstanding advance in the

The discussion of the treatment includes the indidiagnosis is roentgen examination cations for operation, the pre-operative treatment, the anæsthesia for operation, the operative tech-The authors believe that the mortality of partial gastrectomy for nique, and the postoperative care cancer should be close to 10 per cent They discuss the closest and nother continuous for the closest and nother closest and nother closest and nother closest and nother closest and not the clinical and pathological factors affecting the prognosis and conclude that the three factors most important in decreasing the possibility of long survival after operation are involvement of the lyminate of the l phatic structures, serosal involvement, and high-

The X-ray diagnosis is discussed by Kirklin grade malignancy

# On the Technique of Partial Gastrectomy (Billroth I) Acta chirurg Scand, Bohmansson, G

The author advocates resection by the Billroth I method as a routine operation for gastroduodenal In cases without acute complications its mortality is less than 4 per cent Bohmansson performs it under local anæsthesia with splanchnic and vagus block from a median incision Important factors in the technique are observance of the anatomical conditions, gentleness in the handling of the vessels, muscles, and nerves in the resection edges, avoidance of the use of clamps on the tissues left, intestinal incision with diathermy, extensive mobilization of the duodenum in cases of duodenal ulcer, and care to avoid making a too-wide anasto-

The article is concluded with a brief review of the indications for the operation and the usual compli-

cations

Late Intestinal Stenoses Secondary to Hernial Incarcerations (Le stenosi intestinali tardive secondarie agli incarceramenti erniari) Arch Costa, G

Costa sums up his theories regarding late intestinal stenosis secondary to hernial incarcerations, reviews clinical and experimental studies of the condition,

and reports eight cases in which he operated success-The number of reported cases does not exceed runy fifty The decrease in the frequency of the condition in recent years is attributable to more frequent performance of the radical operation for herma and early intervention in cases of strangulation

The origin of this clinical entity always lies in an error in judging the biological condition of an error in judging the biological condition of an intestinal loop which, after temporary strangulation, incestman roop winch, after temporary strangulation, is replaced in the abdomen at operation or by manual reduction The mistake is often unavoidable because the changes are not distinct and the loop does not present a uniform or pathognomonic appearance However, the mechanism of the stenosis is always the same The lesions begin in the mucosa, which undergoes massive ischæmic necrosis In this process unucigues massive ischanno necrosis the action of the constriction ring is most important. the action of the constitution ring is most important. It stimulates the muscular layers to contract, thus throwing the mucosa into folds and cutting off the blood supply at the base blood supply at the base The lesions extend progressively toward the exterior although the mucosa gressively toward the exterior arthough the mucosa is transformed into a kind of sequestrum with a line of demarcation which protects the outer layers and the peritoneum If operation is performed at the stage when the process is limited to the mucosa, the lesion will escape the most careful observation Therefore the condition underlying the late stenosis is a temporary strangulation which is compatible with a slow cicatricial reconstruction

The clinical course is progressive. It is divided into a prodromal stage characterized by vague disturbances, diarrhea, and intestinal hamorrhage, which corresponds to the degenerative histological phase, and a terminal stage, in which the stenosis, partial or complete, is established A free interval of apparent cure intervenes between the replacement of the loop and the onset of the premonitory symptoms, This interval, which in the reported cases varied from a few days to fourteen years, 15 pathognomonic.

In discussing the prevention of the condition the author emphasizes the importance of caution during ordinary herniotomies He states that while there is no decisive evidence of the potential vitality of a loop of intestine, a sign of reduced vitality, which has not been sufficiently appreciated, is a total, massive infiltration of the intestinal walls

# Ladd, W E, and Gross, R E Intussusception in Infancy and in Childhood A Report of 372 Cases Arch Surg, 1934, 29 365

The authors report on 372 cases of intussusception from the Children's Hospital, Boston To show the improvement in the treatment of this condition, the results obtained in the twenty-year period from 1908 to 1927 are compared with those obtained in the fiveyear period from 1928 to 1932 Of the 90 cases treated in the last five years, resection was done in only 2 (2 2 per cent), whereas of the 282 cases treated in the previous twenty years, resection was done in 28 (10 per cent) The reduction in the frequency of resection was due to the following 3 facts

In the last five years patients were referred ear Her for treatment.

The surreous became somewhat more bold in attempting to reduce intrasperations which previously were regarded as irreducible

3 Experience showed that the intestine which

was badly discolored and demand after reduction was frequently viable, whereas formerly such an ppearance would have led t resertion

Eurhty-seven per cent of the patients were under two years of se and 70 per cent were hetween the ages of four and eleven months. Sixty-one per cent

were boys

The important and most frequent symptoms were attacks of abdominal pain, pallor, sweating, womit ing, and the passage of bloody stools. The prominent physical findings were shock, debydration, a palpa ble belominal mass, the passage of blood from the mass palpable by rectal rectum, and possibly examination Roentgen observations in the ileocolic variety were characteristic, but rocution study was not necessary in the average case of acute intumoscentron

The small treatment was operative reduction. Resection was done only when the attempt at reduction falled. Of the to resections, only a were successful

The mortality in all cases showed a continuous downward trend from 50 per cent in the period from rood to ora to a per cent in the period from road to 1932 In the last five years to cases were seen within thirty-us hours after the onset of symptoms. In this group operation was performed with no mortabty HERRITE F TRUSTON M D

Peterson, L. Adhesion of the Terminal Heurs and Hens. I the Adherent Terminal Heurs. An Amatemical, Clinical, and Clinicostatistical Study (Bestrag ger Kennton des Bengs terropole firstore and Brus ales terremades ferati

toroughe, klurische und klussche-statutische Studie) tota charact Scand #34, 75 Supp 5

that believes that m most cases of adherent flown the condition is concentral attempty or variant of development. During the physiological sec ordery period of dhemon the terminal ileum, the caccum, and the ascending colon come t he pressed to the right renal or suprarenal region. It is charac teractic of such cases that the most caudally ofto ated part of the meso-tleum is missing or for a longer or aborter distance has lower than normal and lumits the free mobility of the intestine

proportionate According to Peterson study increase in these cases seems to occur after birth and to be most pronounced t the transition period from youth to middle age. However this increase may depend, in part t least, upon such folds and dis-some as seem to be physiological in children and become pathological later in life. In an incensider able number of cases the condition may be the result of trauma, thromboses, chromic mesenteritis, or an acut inflammatory process in the ileograpi region Appendicitis seems to be of little or only slight im-

portance. The condition is encountered more after in males than in females. In the fetus or newborn inlant no scars are found in the shaormally low meso-fleum or discent intentine. Later in life these parts are transformed by scars. In cases of fleus of the fixed terminal ileum these changes are excessive although, even with this occlusion, scars are sometimes absent. A membrane similar to lackeon s membrane seems sometimes to take part in the executions transformation

According to the author's anatomical and embes ological findings, the terminal ileum and agreed colon may be tracked to their surroundians or directly t each other and, in addition, ma be fixed to the dorsal abdominal wall in the right illac fores even in the absence of demonstrable scar transfor metion. The author' findense appropri Brownes's hyDothesis that the physiological accordary firstion of the intestine as doe to the general adhering tendeacy of the scross under certain conditions rather than to an adhesive tendency inherited in the ser minal layer which migrates from one part of the intestine to another. An innate, obering tendency between the fleum, creum, ascending colon, and hepatic flexure does not seem probable. The a thor holds that the fixation of the proximal colon is not released in the later months of embryome life, and that, accordingly there is no third physiological affixing period for the intestine

Peterson's statistical investigations on Treve's neco-sprendly types reveal a marked forming and deforming influence of the intestinal contents and activity on the neco-appendix. A transformation of the fetal type occurs. This is probably most marked during the cartiest years of childhood and becomes stabilized het can the ages of cleven and tagety years although even later in life a slow change occurs in the direction assumed in childhood. The author is of the opinion that some of the penappendicular adhenous are fetal formations. He believes this to be true chiefly in the cases in which so scats pro-

greening attacks of appendicitle attacks have or curred A long argued colon is found relatively often in fetures in Kareisa

Occissions may be divided into a western Europenn and an eastern European group. In Finland, the latter re lound. They are characterized by frequent association , ith the forms of ileum which are due principally to congenital anomalies or variants of the intestine and mesentery but are often transformed in the course of years. These occlusions occur almost exchangely in males

The adherent terminal ileum is often an importa t factor in the occurrence of volvalus of the tleurs. twested occlusion, and other forms of fires in the terminal ileum. It frequently seems to contribute to ferture and sometimes to the occurrence of velyolos of the cross

The variant adherent terminal sleum series ( octor in many countries. It is common in the custers part of Finland and probably throughout that comtry It seems to predispose to ileus in races with a more or less apparent admixture of Slavic blood However, heavy physical labor and life under relatively unfavorable conditions are contributory factors. Ileus of the adherent terminal ileum occurs chiefly in men between middle and old age who are engaged in heavy agricultural labor.

The majority of persons with the condition suffer for some time with gastric and intestinal disorders, often in the form of a more or less pronounced obstruction of passage in the lower part of the small intestine. As a rule the onset is comparatively acute, but it occurs more often within a few hours or a day

than as a hyperacute condition.

The typical acute attack indicates a quickly developing pronounced toxic state with the obstructed intestine lax and filled with fluid and rapidly slackening peristalsis. In rare instances intestinal gan-

grene has been found

Operation should be done under lumbar anæsthesia or, in the cases of seriously ill patients, local anæsthesia Both before and after the operation generous amounts of fluids and hypertonic sodium chloride solution should be given After the operation the intestine must be well evacuated in the least fatiguing manner The basic aims of operation are removal of the obstruction and provision for efficient postoperative evacuation of the obstructed intestine Simple detorsion is sufficiently effective only if the afferent coil shows good peristalsis and vitality In the absence of good peristalsis and vitality of the afferent coil, appendicostomy or a Witzel ileostomy should be done If the wall of the ileum is fragile and relatively inactive, cæcostomy may be tried. In this procedure as well as in appendicostomy the fistular drain should be introduced into the afferent intestine through the coils of the colon and past the obstruction If the condition is very toxic and a large part of the small intestine is bulging and lax, the formation of an axial artificial anus seems to be indicated

The prognosis is unfavorable. In Finland the mortality in operatively treated cases has been reduced from 595 per cent in the period from 1915 to 1930 to 452 per cent in the period from 1931 to 1932. The danger of a secondary adhesional occlusion or of recurrence of occlusion by the adherent terminal ileum is not slight. When, after the operation, there are signs of a low obstruction in the small intestine, aleocolostomy or resection of the intestine should be considered. Louis Neuwell, M.D.

# Dinnick, T The Origins and Evolution of Colostomy Brit J Surg, 1934, 22 142

Wounds of the bowels were recognized in remote antiquity. Even then it was noted that persons with bowel wounds sometimes survived when a fæcal fistula was established and that in cases of strangulated herma a cure sometimes resulted when an artificial anus was formed as the result of inflammation and sloughing. The anatomy of such openings was well known, and the afferent and

efferent loop and the spur were described by many ancient writers. Stabbing of the colon of a sheep or horse suffering from obstruction is a veterinary operation the origin of which is lost in remote antiquity. Pillore, a surgeon at Rouen, performed excostomy for cancer of the rectum. His patient, a wine merchant, died on the twenty-eighth day after the operation. Autopsy revealed that the colostomy was functioning perfectly without leakage into the peritoneal cavity. Death was caused by the previous administration of about 2 lb of quicksilver which, held up in a loop of jejunum, caused the loop to gravitate to the pelvis and thereby produced disseminated gangrene of the small bowel. The primary obstruction was due to a carcinoma of the rectum.

Colostomy may be said to have had its real birth when Duret in 1703 performed a successful left iliac colostomy in a case of imperforate anus in a child three days old The patient lived to the age of fortyfive years With Duret began the history of colostomy Duret antedated Callisen in the conception of lumbar colostomy He made a very small incision and secured the bowel by a stitch in the mesocolon, thus preventing recession of the bowel He noted the occurrence of prolapse and he used the anal canal as a channel for the administration of a colonic flushing Surely, as the prophet says, "All knowledge is but a remembrance, and all discovery but a forgetting" Duret was professor of surgery at the Military and Marine Hospital at Brest, a humble and obscure naval surgeon In 1797, Dumas reported to the Medical Society of Paris a case of imperforate anus He did not operate in that case, but from the findings at autopsy he concluded that a colostomy on the left side would have been feasible surgically

In 1797, Fine, surgeon in chief of the hospital of Geneva, performed a transverse colostomy on a woman sixty-three years of age after obstruction had been present for fourteen days. The operation was successful, but the patient died three months later and autopsy revealed a primary growth in the upper rectum causing complete obstruction.

The first colostomy in England was done in 1815 by Freer, a surgeon in Birmingham Freer performed a left iliac colostomy for imperforate anus and the child lived three weeks, dying eventually of marasmus In 1820, Pring, of Bath, a clever and resourceful surgeon, performed a left iliac colostomy on a patient who had had an obstruction from cancer of the rectum for twelve days The patient survived It was not until the time of Amussat, of Paris, that colostomy was rescued from the realm of occasional and heroic operations and advanced to its proper place in surgery Amussat abandoned the longitudinal incision of Callisen and Duret and substituted a transverse incision 4 in long made midway between the last rib and the iliac crest and extended well back to the erector spinæ and quadratus lumborum muscles He fixed the bowel to the anterior angle of the wound by a stitch and left the rest of the wound open Lumbar colostomy was an operation well

suited to the pre-aussistentic and pre-aussistentic times in which Ammest haved Ammest a settlined to the view the operation an hapetus which carried it success the operation an hapetus which carried it success that the operation of election and was practiced by all surpress in Europa, England, and America. It will be remembered that Durer efficient the resemble that the control of the companion of the companion of the theory of the companion of the threat and was definitely recognised. It also successfully for a square was definitely recognised to \$83, Maryll advanced and simplified reductionly by his idea of passing a vulcantite rod through the mercolon. The rod by you the bully wall and viry effectually prevented recession of the loop of howel from the control of the contr

effectually prevented recession of the loop of bowel Tw duther whys of performing an abdominal colontomy are now recognized. One depends for its efficiency upon a norm—the method of Durch, Allingham, and othern. The other crossists in drysland of the bowel, closure and invariantion of the distail and, and estillations of the five promised loop in various and estillations of the five promised loop in various and estillation of the five promised loop in and the colonial colonial and the green to accomling the colonial colonial and the promise of the colonial colonial and the promise of the colonial colonial colonial and state of the colonial colonial and state of the colonial colonial colonial state of the colonial state of the

Tomos W. Neparas, M.D.

Brandman, R. Appendicttle and Acute Inflammatory Abdominal Conditions in Scarlet Fewer A Report of Nine Cases and a Review of the Literature. And Surv. out. so 6

Brasdman review this cases in which beloming incuministations of scarle fever were ministant for the ymptoms of acut a prombellus or pathological involvement of the right lower beloming a partial developed during the course of the crambian. In diction, be tilted in thirty-four cases collected from the literature and several cases reported to him persontally in which a pathological condution in the beaurable quadrant of the abdomen was associated with scattle fever.

The abdominal organs that may be ravolved are () the appendix () the lymph nodes between the Berna and recorm (s) the lymph nodes between the Berna, (4) the lymphod tesses of the cercum tail, (s) lymph nodes eisewhere in the measurery and (b) the spien.

When the presence of ppendants is suspected during the course of scarlet fewer the possibility of spontiaseous regression must be balanced against that of perforation and peritorities and the condition treated in the same way as it would be invested in the same of scarlet fewer Grosse & Courser M D

Brown, C. J. O. Denties from Appendicitis, Med J. Australia 934, 407

In discussing the northily in series of cases of appendicts treated at the Alfred Hernaul in Mebouris, Australia, Brown emphasizes certain causes of the present death rate. Chief of the latter at delay of treatment, for which both the patient sent the physician are responsible. Brown says that diagnoss should be possible within reder's hours after the

onset of the condition, and with modern methods to consamination and transportation (free are very few patients who could not be operated upon which that these or at least utility the first tearty-four hours, when the mortality is less than per cent. The high proportion of atypical cases among those which are fetal and the occurrence of peiric appeaments of the contract of the contract of the contraction of the contract of the contraction of the contract of the contraction of the

In late cases, the technique of operation h of great importance. Lateriterence with the abdominal contents must be minimal and manipulation of the small intestine must be avoided. Paralytic files is largely the result of poor technique. A small bension, blood operating, understang parking, outph hasfling, outph the provided of the hower, and careless harmonization to the fattal technical error. The author has found that derincated on the case of the content of the case of the case

Achmatowicz, L. Sixty-One Cases of Yolvulus of the Sigmoid and Observations on Their Swisicul Traitment (Solzate et as cus de vorbaiste Plane agendés et quelques sécuritions ser less traitment opérateurs). Bull et sols Se és cleterior de la company de la company de la company de la company company de la company de la

writing do Per 014, 26 173.

In the fifteen years between 9 9 and 1934, 46 cases of mechanical intestinal obstruction were observed at the St. Jacques Hospital in Wilno, Poland In sor the obstruction was true to a strangulated bernia in 6 to walvalus of the eigenoid loop in 5 to adhesion lious in 32, to solvains of the small intestine in to intrasperentian and us 8, to volvalus of the cecum. Volvalos of the signoid loop is favored in Poland by the dist, which is very conductive to flatulence, consisting as rule almost excharactly of vegetables and bread. However its development requires, in addition t the effects of diet, a mesentiale deformity allowing abnormal movement of the regmold. It is far more common in males than in females. The parients whose cases are reviewed by the author ranged is age from electeen to eighty years, but the greater number were in the fifth decade of life. The tendency toward recurrence of the volvalus is very marked. In 16 of the cases reviewed there were a or more recurrences. Five of the patients had already been operated upon for the condition

The first symptoms is almost invariably generalized absoluted pain. In the cases reviewed this as of an increasing and decreasing type and did not become localized. In large tember of cases it was associated with vondring. In almost all of the case there was marked typesparts without the passage of gas or feed notice by notion. Farming the company of the property of the property

tion revealed very marked unsymmetrical distention of the abdomen in the transverse diameter. This was especially noticeable under the costal margin. In the majority of the cases it is possible, by careful inspection, to observe the sigmoid loop filling and emptying, a sign first described by Obalinsky in 1889. This sign can be provoked by gentle percussion over the lower quadrant of the abdomen. The author regards it as a more or less reliable indication of vitality of the sigmoid loop as it is usually absent when the bowel is necrotic. Rectal examination is rarely of aid.

The treatment indicated is usually operative but in some cases conservative measures may be attempted first. The flushings described by Hegar and hot baths may be of value. The attempt may be made to pass a soft rubber tube to the obstruction, but this is definitely dangerous. In the cases reviewed, 24 of 36 patients subjected to this procedure were benefited, but 2 died, presumably from perforation. In 18 cases operated upon, necrosis of the sigmoid was found. The volvulus had reached 180 degrees in 12 cases, 360 degrees in 21, 450 degrees in 1 case, 720 degrees in 4 cases, 900 degrees in 1 case, and 1,020 degrees in 1 case.

The author operates under general anæsthesia, after he has corrected the volvulus and before he closes the abdomen he evacuates the intestinal contents by means of a large rubber tube introduced into the rectum. In cases in which the bowel is necrotic he has found the mortality lowest when the necrotic segment is exteriorized and intro-abdominal manipulation is limited to the absolute minimum.

In conclusion he urges early operation

WILLIAM C BECK, M D

Lee, H, and Staley, R W Inflammatory Strictures of the Rectum and Their Relation to Lymphogranuloma Inguinale Ann Surg, 1934, 100 486

The authors state that the specific intradermal test of Frei explains the apparent discrepancy between the number of men and women affected by lymphogranuloma inguinale. This test shows that the disease is common in women, but that in the female it is often represented by a stricture of the rectum and seldom by involvement of the inguinal lymph nodes whereas in the male the reverse is true. The site of the primary lesion and the lymphatic drainage of the external genitalia in the two sexes are responsible for the variation in the distribution of the lesions

The lymphatic drainage of the glans penis and prepuce is primarily to the inguinal lymph nodes. These have connections with the ihac nodes above. An occasional lymph vessel leads directly through the femoral canal and abdominal muscles from the glans penis and prepuce to the ihac and hypogastric lymph nodes. A number of anastomoses are present between the lymph vessels of the glans penis and prepuce and the skin of the scrotum, and occasion ally there is a direct connection with the anal region

The skin of the scrotum drains chiefly to the inguinal region. The abundant connections of the skin of the scrotum with the anal region are of great importance as they indirectly connect the penis and the cutaneous lymphatic network of the anus.

The clitoris and vulva drain principally to the inguinal nodes. The lymphatics of the posterior portion of the vulva have extensive connections with the cutaneous lymphatic network of the anus. In both sexes there are many communications between the anal network of lymphatics and Gerota's nodes at the anorectal junction. The connections between the lymphatics of the posterior vaginal wall and anus are quite free.

From our knowledge of the lymph drainage it is understandable how involvement of the lymphatic tissue of the inguinal region or anus can cause elephantiasis of the external genitalia or stricture of the rectum, depending upon the degree and location of the involvement of the lymph channels. In the male the primary lesion is located chiefly on the glans penis and prepuce, this fact accounting for the frequency of inguinal bubo and the relative infrequency of rectal stricture. In the female, the primary lesion is thought to be located most often on the vulva or the posterior wall of the vagina and as the lymphatic pathways of these sites have abundant connections with the anal region, the complication of rectal stricture is to be expected.

Of the sixteen cases of rectal stricture reported by the authors, the Frei test was positive in fourteen Eleven of the thirteen women and two of the three men were colored

In discussing the factors to which rectal stricture has been attributed, the authors state that lymphogranuloma inguinale is by far the most frequent cause

EARL O LATIMER, M D

#### LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Lozano, R Is There a Functional Specificity of Certain Regions of the Liver? (Gibt es eine funktionelle Spezifitaet bestimmter Leberbezirke?) Deutsche Zischr f Chir, 1934, 243 52

The relationships between the liver region and the region from which the portal vein takes its source, which have been described by Henschen, led the author and others to attempt to answer the question whether it is possible to demonstrate physiologically significant and definitely measurable functional differences between the two halves of the liver or the hepatic lobes corresponding to the anatomically demonstrated bilateral division of the portal vein and the other vascular branches A dual function is suggested by the fact that a main stream from the stomach, the spleen, and the area of the inferior mesenteric vein runs laterally to the left in the portal vein and empties chiefly into the left half of the liver (this being possibly a sinistrotropic source stream) and a second main stream, fed from the small intestine and the ascending colon and therefore from

the superior mesenteric vela (possibly a dextretropic source stream) upties teelf to the right laterally int the right half of the liner Moreover it is known that the left half of the liver is the most common site of accordary fiver abscesses arising from dysenteric picers in the left half of the large intentine while the right half of the liver is the most common site of metastatic infections from perityphilitic becemes or abscence in the right half of the abdomen Attention is called about the fact that there are two lever balves which are topographically anatomically, and functionally independent of such other and divided from one another not by the benetic suspensory beament, but by the so called line of Canthe, a line extending from the gall bladder to the heastic sin which divides the liver into two parts of equal weight

The formulation of a working hypothesia required the demonstration of definite, regionally face directional areas is the liver by chemical subvise of the tissues with regard to their content of water the substance, witrogen, and fat, and determination of the tissues with region and fat, and determination to the sons of Canths The suttler therefore analyzed (1) the livers of two accusals differences to the sons of Canths The suttler therefore analyzed (1) the livers of two accusals dougs, 1) the livers of starred dogs, and (1) the livers of four though the type of the content of the

These studies showed that while there are difiremens for the water interpret, and fat reachest of the individual twer lobes, there are no definite automically determined functional differences between them. The line of Castlier may sell be considered the dividing here between the right and left wascular trees, but it not the dividing time between two functionally different believes of the liter.

The nathor compares his findings with the contradectory inchings of School and attributes the firquently marked differences in the results of analysis mount of blood present in the infinitial if liver lobes and the liver region, which is difficult to determine at tioppy (H charw). Harry A Satamars, M.D.

Beogoles, A. 5 and Seferes, C. V. Provoked Elizabethon of Gall Stunes (i.e. desences prevented de los cilculos biares). Bel meb Sec de gray de Banne Arme que 3 gay

Atthough early operation has decreased the gross mortality of surgery of the binary tract, the doubt rate still remnion logis in cases of sensors beliany tract disease. Became of the particular fragility of patients with gall stones, there is field for medical destinage in calculors obstraction of the common duct as a means of avoiding operation in certain

The methods recommended by the utdoors are medical and medicoampical. The medical rectment consists of draftnage by the Method Lyron method In the methodompical treatment the for several years accessfully combined installations.

through the Kelt take with the use of the decisions sound. In the trachique they employ the Kelt take in placed off dechots in given min received was attrach in given placed off dechots in given min received washed out with tepid writer through the decisions are sound and do one of a top per cert decision of magnetium subplace are instilled. According to the formal cast too (from p. 00 to, oox can) is then allowed to run tate the kelt tender in the first tender of the control of th

The principal indication for modified drainage of the file peasages is the period of obstitution in case of stones in the common dust. The authors have noted that a syndrome of common-dust obstruction precedes effectionation of the stones by the satural precedes effective to the stones of the stones of the satural precedes of the stones of the stones of the stones of a certe choicecystics to hydrogo of the pall blottler in the majority of cases of common dust stone is which it is used the shuthaution is complete. When explained on the stones in obtained in cases presenting the common-dust syndrome, operation need not be buried. The further syndrome of the role in the buried to the further syndrome of the role of facilities and the stones of the filter peasages dissposer publicy and permanents.

appear reports and permanently

O's total of eighty cases of strone in the treamon
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through the intentional rate in 1 (1) yet per cost). Me
of the patients required operation later one succesduction of the contraction of the contraction of the
contraction of the contraction of the contraction of the
numbers of years. Several of the patients were
shortly personal with cardiovascular ductor, and
some even in practions conduction from infection.
The case hactories are reported in detail with
recognitions.

Milkishun, O. Acata Functuatitis. I. Suvere Cener. With Special Regard to Their Consumerity Treatment (Passersitis souts. I. Schwar Faris, besorden kauschitch their komerative. Bebusiling). 4th charg Scott 34, 15, 132.

The nuther states that superovenent in our heaviedge of acute pencreatitic consults almost exclusively of a better understanding of the eriological factors and the curried for despones. The treatment of the condition still vename almost includingly support and the average cost normality of supplied storying and the strenge cost normality of supplied storying and the strenge cost normality of supplied storying the progress teld (Bonom late the capacite and distance) or the bile ducts.

It is presided set that there is no austonical basis for an operation on the pancreus. The pancrets has no true capsule in the austonical sense of the term. The structure divided by a incision into the pancrets in the pertinoncies covering the organ, and an incision through this peritoneal cover cannot relieve the secretory tension in the pancreas. The pancreas is made up of many small lobuli which are separated by thin septa of connective tissue. To relieve pancreatic tension it would be necessary to divide the thin layer of connective tissue covering each lobulus and that is impracticable. Moreover, the interlobular connective tissue septa are intimately connected with the glandular tissue which is always affected at the same time. An operation of this type is therefore apt to cause an increase rather than a decrease of the necrosis and intoxication. In addition, it is associated with a not inconsiderable risk of hæmorrhage and fistula formation.

Operations on the bile ducts are theoretically more logical. However, the systematic performance of such operations in recent years has failed to bring about a decided decrease in the case mortality, no doubt because the patients are in such poor condition that they are unable to stand any operation whatever

Recently a few surgeons have adopted more conservative treatment, some of them postponing the operation until the shock stage has been passed and others postponing it until all acute symptoms have subsided and then operating for gall stones when these are found to be the cause of the acute pan-

creatitis or if the process goes on to abscess or cyst formation

On the author's service during the last eight years, thirty-nine cases of severe acute pancreatitis have been treated conservatively. Of twenty patients who were extremely ill, being in a state of shock, only three died. Of the nineteen others, who were also very ill though not in a state of shock, none died. The diastase value usually ranged from 3,000 to 12,000. In only two cases was it under 2,000. Subsequent operation was performed only when the presence of gall stones was ascertained with certainty, and then not until from one to three weeks after subsidence of the acute symptoms.

The treatment which the author has adopted in-

cludes the following factors

r A plentiful intake of fluid (water, tea) by mouth as far as the vomiting will permit

2 The subcutaneous and intravenous administration of 1 liter of physiological salt solution several times daily

3 Stimulants and, frequently also, when the blood

pressure is particularly low, ephetonin

4 Peristaltics—enemas containing 2 c.cm of sennatin once or twice daily and, in some cases, the intravenous injection of i c cm of pituglandol once or twice daily

## GYNECOLOGY

Duculng, J. The Treatment of Fibromats of the cuing, a The Treatment or Fibrotimus or the Uterus in the Absence of Pregnancy (Le truits-Uterus in the Absence or Frequency (Le traitement des Ébronces de l' téres en debors de la rement our autoures un 1 terms en ucnors de la grossesse). Hall Sac d'abyt et de Divide de Par

This article is based on the author' experience in the treatment of over 300 cases of fibrons of the the treatment of over 300 cases or surrouns of the treatment of over 200 similar cases by means of physical agents

Dooring says that thromats of the uterus are more common than is generally assumed, but many of them do not cause symptoms Occasionally they men to not taken symptoms. Occuminately iner-prolong menetration without affecting the general health, and in some cases they cause symptoms of

The treatment of uterine fibrograts is not without And treatment of diarne mechanic is not window danger. The mortably and morbidity are quite conaderable even when irradiation is used. The uthor succession when and a remainded in the armonic behaves that radium, especially when it is placed occurs that remain capetany when it is passed within the utmine cavity is more dangerous than the X rays In one of his cases the intra-nterine latroduction of radium was followed by death from septic pyremia. He states that fibromatz should not be treated unless they cause symptoms

Surgical treatment is indicated for all cases of fibroms in which the desposes is doubtful, cases of nortens in winess the unguests a doubtful, cases of fibrons with a twisted pedicle or undergoing degener ation, cases of fibroma complicated by an affection of the terms, and cases of fibroras complicated by an affection of the neighboring non genital organs. The type of surgical treatment indicated depends upon

Physical agents should be employed in cases in which surgical treatment is not indicated or opera tion is contra-indicated by some complication such as carchac, pulmonary renal, or hopatic lenions. The as carmac, pursonary renar, or no save sensors. And various methods of treatment with physical agents.

Ducung's conclusions are summarized as follows Not all fibromata must be treated actively Only "pathological" fibromata should be treated surgically or by roentgen or radium irradution

In cases in which the diagnosis is not certain. surgical treatment is indicated. This police to all cases of fibroms with complications except those of abroma complicated by cancer of the carvix, since, if the fibroma is large, Rentherm method most be used, and if the fibroms is small t cannot be disg nosed without operation. In the absence of special indications, subtotal hysterectomy is preferable to total hysterectomy When possible the ovaries should be preserved completely or in part

3. There re numerous indications for the treat ment of aterine fibroms by physical agents. Such treatment is probably undicated more frequently

than is generally assumed. In the majority of cases then is generally essential AM the gaspointy or care-lessy tradiation is preferable to radium irradution Fractional doses give the best results

4 It appears that about 60 per cent of fibrometa 4. It appears that about 40 per cent or mannata should be treated surgically and about 40 per cent by physical agents Assor & Schwarmers, M.D.

# ADMERAL AND PERIUTERINE CONDITIONS

Aschheim, S.: The Action of Goradotropic Sob-stances on the Owny (Unior de Winkament goardotroper Stoff and den Earntock), Arch /

With a acries of arines or arine extracts Aschbenn When a series of states or states extracts Ascancing says blo to obtain only follocis maturation is ovarier H did not obtain rupture of the folicles or corpor are one notes improve or one courses or corper linterm formation. He calls the factor producing the

W th ammoniated extracts of the anterior lobe of the hypophysis t was possible to obtain is the ovarios of infantile animale only the formation of small stretic corpors lates and to obtain these with summaries corpora mice and to outside these arms danger. Occasionally there ppeared only sight camps of the following cells Large does canned contrast of corpora lutes already present without producing evidences of centrus in the vaginal motern and althout causing culargement of the nterms From these facts the thor concludes that the gon-From these tacts the coor continues that the paradotropic substances of the anierior lobe of the hy pophysis and those excreted in the urine are different substances with a similar biological action. In contrast to Factor A there is Factor B which controls the development of the corpora into and vasculari-

Aschbeim conducted experiments also to deter more whether rupture of the follicles is caused by bormones. By injecting Factor A he succeeded in causing the formation of large follicies is the ovaries of infantile mice. As soon as vaginal amount abound the systemore of centrus he injected Factor B. The injection of Factor B was followed by the rupture of sumerous follicles, the formation of corpors intes, nd the ppearance of ove in the tubes

In the physiological interaction of these t tors, the follicle-maturing Factor A and the follicle Intersticing F ctor B Factor A beings the follocies to maturation and then Factor B favors their rupture maturation and their values to prove the granulous cells to charge into hitem cells, and, by the bodding of new vessels from the theca cells, brings boot vascolarization of the curpus intenin. Therefore rupture of the follicles is not a mechanical process resulting from increased internal pressure but process due to hormoose in which Factor B acts spon the fol-Bealar cells in manner as yet not understood.

Factor A prepares the granuloss cells—scenhilres

them—for the action of Yactor B, its effect being analogous to the sensitization of the uterine mucosa by the follicular hormone for the corpus luteum hormone HANS OTTO NEUMANN (G)

Montgomery, J. B., and Farrell, J. T., Jr. The Value of Postoperative Roentgen Irradiation in Carcinoma of the Ovary. Am. J. Obst. & Gynec, 1934, 28-365

The authors outline a method for the clinical classification of ovarian carcinomata and report an analysis of twenty two cases with regard to type, grade of malignancy, operability, and response to postoperative roentgen irradiation. Of eleven patients treated more than five years ago, five (45.4 per cent) are alive. Of fourteen with a papillary existed enocarcinoma, seven are still living and of three with a papillary adenocarcinoma, one is still living. Of four patients with an adenocarcinoma, all are dead. The one patient with a granulosa celled carcinoma is still alive.

The granulosa celled carcinoma is the least malignant, the papillars cystadenocarcinoma is more malignant, the papillary adenocarcinoma is more malignant than the papillary cystadenocarcinoma, and the adenocarcinoma the most malignant

The histological griding of malignancy is important in the prognosis of overlan carcinome. Only one of the authors' patients who had a tumor of a high gride of malignancy survived more than tive years. All of the patients with a tumor of an intermediate or high grade of malignancy are dead. Those with tumors of an intermediate grade of malignancy lived longer than those with tumors of high grade of malignancy. The more completely operable the tumor the greater the life expectancy.

Postoperative irradiation is often of value in relieving the pain and ascites, reducing the size of the tumor, and prolonging life. In nearly all cases of ovarian carcinoma, regardless of the hopelessness of the prognosis, postoperative irradiation should be given if the patient's general condition permits.

In the discussion of this report, KEENE said that it is impossible to foretell the response to irradiation in a given case. He regards the histological type as of little or no value in the prognosis and X ray irradiation as of little value as a palliative measure. Of them, six patients he treated two or more years ago, ten are still alive.

EDWARD L. CONNELL, M. D.

#### MISCELLANEOUS

Klaften, E Cystodiaphanoscopy A New and Simple Method of Examination J Obst & Gynac Brit Emp, 1934, 41 739

When cystoscoping in the darl chamber more than twelve years ago, klaften was struck by the clear flashight of the bladder. On the basis of this observation he conceived the idea of utilizing the bladder light, which had thus manifested itself as a luminous source, for visualizing the contents of transparent ovarian cysts and accumulations of fluid in the ab-

dominal cavity. He calls this procedure "diaphanoscopy". At first his efforts met with failure, but this was found to be due to the fact that the tumors he was viewing were either hemorrhagic with dark contents or composed of solid tissue. To date, he has made 730 diaphanoscopic examinations. By this means he has been able to distinguish between cysts and free fluid in the abdominal cavity. He has examined also cysts in the midline where it is other wise difficult to differentiate between cysts and myoma of the uterus.

Translucent ovarian and parovarian cysts flash up like Chinese lanterns when they are lit. In cases of opique cystomata with light absorbing contents and cases of solid ovarian tumors these lighting phenomena are missed. Cases of ascites, such for example, as those due to tuberculosis of the paritoneum, carcinosis of the peritoneum, carcinosis of the peritoneum, congestive cardiac conditions, fibroma of the ovary, and granulosa-cell tumors, show the characteristic differences of a lighted-up lateral abdominal will and an absolutely dark medial portion of the abdomen. When a fibroid and an ovarian cyst are present, the latter, if translucent, appears lighted up while the fibroid remains dark

The technique is similar to that used in cystoscopy By turning the light, a cystocele can often be seen through the vaginal yall, and by introducing the light into the rectum a rectocele can be demonstrated. The author hopes to enlarge the field of use fulness of this method of diagnosis to include pathological conditions in the upper abdomen such as pancreatic cysts and enlargements of the gall bladder.

HIRPI W FINK, M D

Caldwell, W. E., Molov, H. C., and D'Esopo, D. A. Further Studies on the Pelvic Architecture Am. J. Obst. & Gynec., 1934, 28, 482

The authors report a study of the shape of the pelves of 215 primigravide They considered it advisable to modify their original classification of pelves to include the mixed types in their proper position with respect to the 4 large or parent forms They now classify pelves as follows (1) the true anthropoid type, (2) the anthropoid type with a gynecoid tendency, (3) the gynecoid type with an anthropoid tendency, (4) the genecoid type with a narrow fore pelvis, (5) the true gynecoid type, (6) the gynecoid type with a tendency toward flatness, (7) the true flat (platvpelloid) type, (8) the android type with an anthropoid tendency, (9) the android type with a gynecoid tendency, (10) the true android type, (11) the android type with a tendency toward flatness, and (12) asymmetrical forms

An intermingling of types occurs when a posterior segment of one of the 4 parent groups is associated with the fore pelvis of another. This intermingling of posterior and anterior segments of the primary groups is due to the fact that the pelvic girdle develops from 7 distinct bone elements and any one element may display a radical departure in shape from the ampleness characteristic of the typical

female form

The authors advance the theory that a great influences may be at work, one, an arrest in evolution from the pe or true authropoid form to the perfect human form which is characteristically flat, and the other a sexual or bormonal factor which may determine certain masculine characters in the female

Of the pelves studied, the lalet as large in a per cent, of verage size in 50 per cent, and less than average size in as per cent. Of the petres of the gynecold type, slightly fewer are small and slightly more were large. Of the android group, 44 per cent were small, whereas of the anthropold group con-

alderable number were large.

M my of the prives of the marcoid group aboved average or wide subouble angles with correspond ing decrease in parrow s gies as compared lith the series as abole In the androld group there was a very definite tendency toward the narrow forms, the incidence of the latter being 4 per cent as compared sith an incidence of 5 per cent in the series as a hole. The anthropold pelves showed a higher incidence of wide angles, the narrow variety occur ring in only as per cent. This was an unemperted Anduse

Hears boses ere found in is per cent of the android prives as compared with 10 per cent of the total number of belies. The width of the public arch gives no clue to the sue of the fore pelvis There is a marked relationship between the width of the arch and the thing of the side walls of the pelvis. narrow arches being associated with converging walls in 100 per cent of the pelves studied. A sixnificant correlation was found between the width of the subsuluc angle and the sacrum

Assimilation was noted in per cent of the entire series of pelves. Of the gynecoed group, a occurred in 6 per cent of the androld group, in 7 per cent and of the anthropoed group in as per cent Sky secral segments ere lound associated 1th narrow subpubic angles twice as frequently as with wide angles. In spite of this, assimilation was noted in to per cent of the pelves with usde angles. Assumilation plays very musor rôle, if any t all, in the formation of parrow subpuber angle

EDWARD L CORNELL M D

Glardino, E. Researches and Considerations on Hypophyseal and Overten Hormones in the Menstrual Blood (Recerche consideranous meti orraces or are-spotents set susper mostrosic. Re-Mai do ruse out 9 75

Guardino reports series of experiments in which he determined the hormone content of measural blood. The menstrus! blood was collected by means metal utenine catheter to prevent contamina tion from the vastinal secretions as much as possible The serms of the measured blood as injected int mice in repeated small doses until total of or 1 cem had been injected. In control series similar amon to of secure of the circulating blood were inircted

Whereas death rarely followed the injection of a c cm. of serum of the circulating blood, so per cent of the animals died following the injection of simiher amount of serum from meastreal blood While the latal effect of the serum of meastreal blood ma have been due to contamination by cellular office and merce, which were difficult to remove the author believes that some other taxic factor us have been responsible

Following the fametion of a came of menutros) blood into pretrabeacent more the varies were farger than normal and hypersemic, and contained termerous follicles. Histological exemination disclosed almost complete absence of young folicles. but showed medium skeed and mature follicles and others that had undergone atresia. Some of the cells of the granuloss had increased in size and others had undergone lutein transformation. Numerous

corpora lutes ere present

The balection of a or a con of serum of circulat las blood into nemabercent mice produced few changes in the ovaries. Tou ed the periphery of the overy there were few primordial follicies, and toward the center there as evidence of the formation of follicular cavities and of maturation, espacially in the animals treated with a c cm

After the injection of 5 c cm of menetreal blood fato custrated mice the eatine uterus showed hypertrophy and hyperemia. The uterios tensoulature was dense and the enthellam was in the process of profilerating showing many mitotic cellular divisions. In the best of the glands there as evidence

of secretion

Following the injection of or a c cm of serem of the circulating blood int contrated mice, the interest showed mild congestion, the endometrism \*\*\* moderately inditrated, and the shade ere in a state

From these experiments the author concludes that the measured blood contains four bormones in fiff ferent concentrations Prolan A and folliculas are present in greater amounts than Prolen B and latela There is a definite parallellars between the concentration of Proles A and following A parallellam between Probin B and lutein a less evident

Perror A Rose, M.D.

Ampach, B. M. and Hoffman, J.; Endometrial Findings in Functional Measurant Disorders. Am J Chat & Greek 1934, \$ 473

study of macty-six cases of amenorthms, ninety-seven cases of uterine bleeding, and forts 1% cases of ppercettly normal measureation in hick treatment as given for dysmenorrhoss, sternisty nd obesity the authors found no constant relationship between the chalcul symptoms ad the development of premenstrual endometrium. They state that hile the development of premenstrual endometrom towartable cotocides with ovulation and the development of a corpus lateum and our understanding of the anabolic cycle is complete amenorates, sterine bleeding, and what present to be normal

menstruation are associated with so many different states of the ovary that they are unable to explain the catabolic cycle

The clinical and laboratory findings seem to favor the recent tendency in the literature to question

- I The constancy of the relationship between the state of ovarian function and the periodicity of the flow
- 2 The truth of the idea that most healthy women menstruate regularly and at twenty eight day intervals
- 3 The validity of the view that menstrual bleed ing depends upon regression of the corpus luteum (negrtive phenomenon)

The authors believe that bleeding may be due to a

positive mechanism thus far unexplained

As amenorrhoa, oligomenorrhoa, and functional uterine bleeding of any sort are unreliable as positive indices of ovarian function, a test curettage is important in the diagnosis and treatment of functional gynecological disorders. Correct evaluation of the uterine mucosa depends upon the recovery of mucosa from all parts of the uterine cavity. The use of a pipette curette is inadequate for this purpose.

In the discussion of this report Payne stated that under normal conditions the endometrium is constantly changing. In regularly menstruating women a characteristic picture is seen for each period of the menstrual cycle. Examination of a single specimen of endometrium taken at a given time during that cycle is sufficient. However, in the event of amenorrhoa or menstrual irregularity, a single curettage is of little value in determining the endometrial changes. Hyperplasia is a coincidental condition and not the causative factor of functional uterine hæmorrhage.

Kurzrok, R, Kirkman, I J, and Creelman, M Studies Relating to the Time of Human Ovulation Am J Obst & Gynec, 1934, 28 319

The daily excretion of Prolan A (follicle stimulating hormone) of ten young women was studied over extended periods of time. Sudden excretion of this hormone occurred at about the middle of the menstrual cycle and had a definite tendency to recur at about the same time in the following cycle. This sudden secretion of Prolan A from the anterior lobe of the pituitary gland is considered to be the stimulus to the ovaries to induce ovulation. Evidence is cited in support of the view that ovulation follows the Prolan A excretion within about twenty-four hours. It is believed that ovulation cannot occur without the stimulus of Prolan A. However, the presence of this substance is not prima facie evidence of the occurrence of ovulation.

The time of ovulation as suggested by this method is in complete agreement with the results of all other methods used in the study of the problem. The greatest incidence of Prolan A excretion was between the tenth and the thirteenth days, hence the greatest incidence of ovulation was between the eleventh and fourteenth days.

One of the cases suggested the possibility of menstruation without ovulation, and another, of ovulation without previous menstruation. Two of the patients studied became pregnant while under observation. In both, the course of events was noted from menstruation through the termination of pregnancy.

Suggestive time relationships between menstruation, ovulation, fertilization, migration of the fertilized ovum, and nidation are considered. In two cases a positive Aschheim Zondek test was obtained very early, namely, on the twenty-fifth and twentyseventh days after the onset of the last menstrual period or two days before and one day after the expected onset of the skipped period

The sudden change from a positive Aschheim-Zondek test to a positive Prolan A reaction at the end of pregnancy is suggestive of multiplicity of the gonadotropic hormones from the anterior lobe of the

pituitary gland

In the discussion of this report Frank said that the only deduction he was willing to draw from his studies of blood and Kurzrok's studies of urine is that when this kind of hormone is found in the blood or urine or both on the ninth and eleventh days, the prepituitary, adenohypophysis, is acting cyclically according to a covalition depends on so many extraneous factors, Frank does not believe its occurrence can be considered proved by these tests

EDWARD L CORNELL, M D

Paroli, G The Problem of the Sensibility of the Female Internal Genital Organs and the Question of Pain in Gynecological Diseases and Labor (Il problema della sensibilità degli organi genitali interni femminili e la questione del dolore nelle affezioni ginecologiche e nel tranavlio di parto) Riv ital di ginec, 1934, 16 113

Paroli reviews the anatomy of the female internal genital organs with special reference to the sympathetics, the somatomere associations, and the factors which influence pain and the interpretation of pain. He discusses particularly referred pain and the results of peripheral treatment by novocamization of the area to which the pain is referred. In many of his cases this treatment was moderately successful

He states that the pain associated with the female internal genitalia behaves like visceral pain in general, having specific peripheral zones of reference. This phenomenon of peripheral reference is explained best by transmission of the pain through the parietal pathways which correspond to the same sections of the spinal cord as the visceral sympathetic pathways. Referred pain is of importance as a warning sign of an internal disturbance

The zones of peripheral referred pain from the genitalia are different for the adnexa and the uterine corpus and cervix. Adnexal pain is referred to two bilaterally symmetrical zones which correspond more or less to the zone of the middle third of the inguinal ligament and to secondary zones in the lumbar region and the anterolateral aspect of the thigh correspond-

ing to the first, second, and third lumbar segments. Peripheral amenthetication in the region of the first lumbar segment results in marked relief

Palis in the body of the terms is referred; t we symmetrical parametrical sparagolic some which represent part of the first humbar neuronners. Palis in the cervit of the terms is referred pelacipally to the immonateral region. Peripheral Americans by the immonateral region. Peripheral Americans for the immonateral region is recognized to the control of the control

The pains of labor are referred to the soose described for the various period the general facession of dystocia due t corrical squam, the lumboactral pain la pertucularly evers. In such cases the general antisquamodics are of value, but hel ladons is best as the acress responsible are perdominantly parasympathetic. Local amenthetus too has not revered of exect had in labor.

In cases of pain due to cute and chronic admenal inflammations, tumor torsions, and genital carcanous, pemphesa horocatalization often results in Drologout, shed sometimes permanent rehel

A Lorn Row, M.D.

Sturis, L.: The Endethelial Sign in Obsestrica and Oynecology (Il segno endethelia nel campo castnos-glocologico). Riv stal di prace 934, 6 933

The demonstration of the endothelial sign depends upon increased endothelial permetibity and consusts essentially of a more of ion accurate count of the percebial homorrhages occurring in the cubrial foass following constriction of the circulation at certain specified persoure and for a definite length of time.

When the number of petechial hemorrhages does not exceed 4, the test is regarded as negative. When from 0 to 30 hemorrhages occu. It is considered positive, when from 10 to 00 hemorrhages result, it is considered deductely positive and when the unber of hemorrhages exceeds 00, it is considered in tensely positive.

Sturia studied the endothelial man in so cases of sormal pregramcy. I cases of pregnancy complicated by tensems, so cases of adversal disease, and cases of fibroids.

Of the cases of normal pregnancy poduve endothellal turn was noted in ( per cent) and of the cases of promuncy complicated by tomerous, it was found in 8 (44 per cent) In the cases of tonerds the frequency of the pontive sign seemed to increase with the blood pressure. Of the so cases of adnesal disease, the sign was positive in 7 (35 per ornt) Of a cauca of oversan crats, the went was positive before operation in 5 (4 per cent) No mereuse in the fre quency of positive sign was found after partial or complete abolition of overses function is such cases In the cases of fibroids, a positive endothelial sign was extremely rare before operation and remained so after hysterectomy with or without emisteral conborectorny but of 6 cases in buch by sterectorny

was done with bilateral oophorectomy it became positive in all Other lovestigators have reported an increase in

the frequency of postthe endothellal sign during mensionation and the climaterium and have say gested that the mechanism is a disturbance of oversus function.

The a thor is of the opinion that endocrins ac-

The a thor is of the opinion that endocrine activity is not the only factor involved

George C. Filoza, M.D.

Williams, W. R.; Heterotopic Teeth and Their Significance, with Special Reference to the latte Abdominal Group. J. Ohn & Green Bra. Emp. 914, 41-72

Terth being blighty specialized and complex dermal prendagas which, la man, occur normally only as the destral arcades of the oral region or as leval anomalies in the limendest visualty of these strades, that occurrence in other parts of the body childrenges. Iteration. It proves the personner of depleyment, the control of the present of the present of the body of the host and demonstrate their capacity for subscription provide and development sides provides and development sides provides a subscription, and the present provides and development sides provides and the provides are provided to the providest and the pro

mera approximate cavery

Here of the text have the most significant constiments of these snowths to asymmetrical divisorments.

t one or the other of the extremities of the suscent ephal axis Most terstoods occur in the abdomisopelyic regions, and it is there also that most bettrotopac teeth are found. These teratolds form a chain extending from the root of the rejentive mesentery by way of the dorsel part of the privis and in from of the secrety and cocryx to the secrococryste vicinity. Along this entire route beterotopic teets are relatively common. They all arise in the extraperitoneal traces of the primative meantary. Then senetic affigities are therefore abdomina). The teratold seems arest before the peritoneum is evolved As the evolving axis slongates in the course of growth, some of these primitive terstood prime are carried int the dorsal part of the privis and others int the sacrococcyptal region. The author less collected and studied a large number of these tumors from various regions and has followed their develop-HAPPY W FIVE M D meet in detail

Gillerson, A. and Fainstein, S. The Temperature and Vascular Raccion in the Treatment of Inflammatory Diseases of the Famule Gastinks by Heat Procedures (the Temperature and Gainsweltine be det Richardings entreediched Ertrankragen der einheben Gesettien mit Wasragenordents) (1888–1914 6

The rethors have made detailed and interesting investigations regarding the reaction of the vancia and the temperature in the treatment of inflammatory decrease of the lemnic genitains with heat procedures Fifty-five women were subjected to 186 individual examinations. The examinations consisted of determinations of the temperature in the vagina and the axilla, the weight, the blood pressure, and other determinations before, during, and after

the local application of heat

The temperature in the axilla and vagina rose according to the kind of heat induction. The strongest reaction was observed after the application of a steam douche, and the next strongest, after hot sitzbaths and electrical hot air treatment. The difference between the temperature of the axilla and the temperature of the vagina, which as a rule is 0.6 degree, increased to 1.2 degrees, indicating apparently that damp heat can be introduced more successfully into the deeper regions than dry heat.

In a detailed investigation of the effect of the local application of heat on the vascular system and heart the authors found that the systolic and diastolic blood-pressure decreased on the application of damp heat, but rose when heat was applied with the electric arc light. They report good therapeutic results

from the various heating procedures

(VON GLASENAPP) CLARENCE C REED, M D

Walther, O Lymphosarcomatosis of the Female Genital Organs (Ueber die Lymphosarkomatose der weiblichen Genitalorgane) Arch f Gynaek, 1934, 157 44

The author discusses six cases of lymphosarcoma of the female genital organs, two of which were his own. The latter are reported in more detail than the others. In five of the six cases the tumor began in the uterus and in one case apparently in the ovaries.

Histologically, five of the tumors showed medium tissue maturity (according to Ghon and Roman),

that is, the tumor cells resembled lymphoblasts and lymphocytes. In one case, because of the marked cell polymorphism, the histological structure of the tumor tissue, resembled that of a "retothel sarcoma" (Roulet). The lymphatic tissue of the tumors was very immature.

The growth of the tumor tissue from the uterus and ovaries progresses first by infiltration to the neighboring genital organs. As a result, lymphogenous metastases often arise in the retroperitoneal lymphatic glands and also in groups of lymphatic glands further removed, and here and there hæmatogenous and implantation metastases appear

In none of the six cases reviewed did the spleen, liver, or bone marrow show leukæmic changes Neither were such changes found in the blood in the one case in which a blood examination was made Therefore a systemic leukæmic disease was ruled out

The site of origin of a lymphosarcoma is preexisting lymphatic tissue. In the first five of the cases reviewed it was the lymphatic tissue of the uterine mucosa, in which lymph follicles are frequently present. When the site of origin of the tumor formation is in the ovaries, it must be assumed that a lymph follicle formation with an inflammatory basis is the matrix of the tumor tissue.

The clinical picture of lymphosarcoma of the female genital organs greatly resembles that of carcinoma of the uterus, except that the tumor is much more malignant, grows faster into the surrounding parts, develops metastases much earlier, and leads to death much sooner than carcinoma of the uterus

According to the reports to date lymphosarcoma of the female genital organs occurs between the ages of forty-five and sixty-five years

(HANS O NEUMANN) CLARENCE C REED, M D

#### OBSTETRICS

#### PREGRANCY AND ITS COMPLICATIONS

Neuweller W: The Content of Thyroid-Gland Hormone in the Blood During Freignancy (Ueber den Schildrensenbormongskalt de Birtes is der Schwagerschaft) Arch f Gyessk 1912-14 396.

The author undertook to determine whether there is an increase in active thyroid gland secretion in the blood during presmancy determine the functional condition of the thyroid during pregnancy various tests for demonstrating the thyroid hormone were used. Unfortunately mone of these tests, when positive, is alone sufficient for positive identifica tion of a questionable substance as the thyroid hormone. Therefore, to identify a substance as thyroid hormone with any degree of certainty t is necessary to obtain a definitely positive result with several tests For his investigations the author used the following procedures (t) determination of the band metabolum (s) determination of the effect of the serum of the pregnant woman on the glycogen content of the liver of the rat (t) determination f the effect of the serum of the pregnant woman on the content of acatome bodies in the blood of the rat. (4) determination of the variations in factic acid content of the blood of the pregnant woman during rest and during measured exercise (5) determines tion of the Reid-Hunt reaction and (6) the Godernst

experiment. The tests were made either on pregnant women or with the blood of pregnant women. Most of the subjects were women with gotier who showed no definite super of hyperthyroids on or hypothyroids and the subject of hyperthyroids or the property of the superior of the subject of the superior of

The findings of numerous investigators and note bly those of Hoffmann and Americano were not confirmed. The basel metabolism of the pregnant women was about normal While increases were demonstrated, they were not the rule N relationship was found between the goster and the basal metabolism of pregnant somen. The blood of preg pant and non-pregnant rats fed on dist rich in carbohydrates sed to similar decrease in the gly comen content of the liver Therefore, no difference was apparent between the two types of serum. The serum of cretime showed decidedly less marked effect on the liver glycogen. When rats fed a diet rich in carbohydrates were injected with the serum of pregnant women the scrum had no affect upon the content of acatons bodies in the blood of the animals. The author describes a new photometric method of determining the content of acetone bodies in the blood.

The lactic and content of the blood of normal pregnant women showed no increase over that of the blood of non pregnant women. Neither did it

show any noteworthy increase after measured esercise as compared with that of son-present women. No relationship was apparent between the solter of pregnant women and the effect of the blood of such women on the liver giveogra or the content of acetone bodies in the blood of rate N relationship between the golter and the lactic acid content of the blood of the pregnant women could be determined. When mice were injected with the blood of pregnent women they were not rentected against poleomorphy cetonitelle. In the Gudenat experiment the blood of the pregnant women caneed so change in the metamorphosis of the tadpoles, but in the active stages there was alight increase in resistance as compared with the effect of the blood of nonpregnant women. In the inactive state no difference in the effects of the two types of blood was de monstrable Feedling with trans from the autorior lobe of the pituitary gland or with prolan had no failurnes on the growth or metamorphosis of the tadooles

On the basis of his findings the author rejects the theory of demonstrable physiological hyperthyroldism during pregnancy However be believes that, in spite of his imdings, there is, as anatomical investigations suggest, a non-demonstrable hyperfunction of the thyrold Without doubt, the thyrold gland is subjected to increased demands during premaner. In this fact the other sees no refute tion of his findings since in his investigations he at tempted to determine only whether the content of theroid increase in the blood is increased during presumer. It is to be assumed that, as the result of the increased demand, the seed for the bormore is increased and is met by thyroid hyperfunction According to this theory there may well be a hyper-function of the thyroid during pregnancy but, because of the greater atilisation of the thyroid se-cretion, the hyperthyroidsm is not manifested clinically by an increase in the content of thyroid hormone in the blood H Successor (6)

Medruzza, G. The Work of the Urinary Riedder in Pregnancy (Il levore della vencet in gravidana) Rie stel di giocc 934, 5 253

To determine the work of the arisary binder fladrums me an apparatus to devised which conelate ensemblily of mercury moments and a tymograph attached t as ordinary systemacy. By means of this apparatus t a possible to record subtable devision and the sub-state of the subtable devision and the sub-state of the subtending a literary accordance to the subtending a literary accordance of work.

The studies reported in this article were made on nine hon-pregnant women, twenty-five women at various stages of pregnancy, and ten women in the

It was found that the amount of solution necessary to provoke a desire to void ranged from 250 to sary to provoke a desire to void ranged from 250 to 400 c.cm in the cases of the non pregnant women, puerperium from 450 to 700 c cm in the cases of the pregnant women, and from 600 to 800 c cm in the cases of the women, and from 000 to 500 c cm in the cases of the women in the puerperium. The motor activity of the bladder expressed in gram centimeters for the three groups was, respectively, 16,000, 25,000, and

65,400 gm cm
These figures reveal 2 definite modification of While the causes of the influence of pregnancy on bladder bladder function incident to pregnancy function are obscure, the author believes that they nunction are obscure, the author beneves that they include the anatomical changes in size and shape occurring in pregnancy and pathological changes resulting from compression during labor

Abnormal Conditions of Pregina kao, de Admortina Content of the Blood of nancy and the Sugar Content of the Blood of nancy and the Sugar Content of the Dioce of the Mother and Child (Stati morbosi gravidica e Traina Rao, G tasso glicemico materno e fetale)

The author found that in cases of normal pregnancy the sugar content of the blood of the mother during labor was slightly increased content of the blood of the umbilical cord was always lower than that of the blood of the mother During the first twenty four hours of hie the sugar content of the blood of the child was about the same as that of the blood of the mother In the first ten days of life it showed first a tendency to decrease and then a

In nephroses of pregnancy the sugar content of the blood of the mother was about normal, whereas in eclampsia it showed a decrease. The difference tendency to rise between the sugar content of the blood of the umbilical cord and that of the mother was more marked

In cases of acute infection with hyperthermia in than in the cases of normal pregnancy the mother the sugar content of the blood of the mother tended to increase and the sugar content of the blood of the newborn child showed a marked increase which was maintained during the first ten days of life On the other hand, in cases of chronic infection in the mother, the sugar content of the blood of the mother was not greatly changed and the sugar content of the blood of the child usually

The sugar content of the blood of premature infants was low, but increased as the child developed showed a decrease

Myelogenous and Lymphatic Leukæmias and Aleukæmias Associated with Pregnancy (Le mielosi e le linfo adenosi leucemiche Garrasl, G ed aleucemiche associate alle gravidanza)

The infrequency of leukæmias and aleukæmias associated with pregnancy is evident from the fact

that the author was able to collect only fifty-eight cases from the literature To these he adds a case which came under his observation at the Gynecowhich came under his observation at the Gyneco-logical Institute of the Modena University

These diseases occur practically always in multip-

are and between the ages of fifteen and forty years They are divided into acute and chronic forms Of

the fifty-nine patients whose cases are reviewed, the my had chronic myelogenous leukæmia, seven, acute my clogenous leukæmia, two, acute my clogenacute myerogenous reunanna, two, acute myerogenous aleukamia, six, acute lymphatic leukamia, two, ous areunamia, six, acute lymphatic reunamia, two, chronic lymphatic aleukemia, and two, permicious anemia In the cases of ten, the condition was not

Pregnancy does not predispose to these diseases In twenty of the thirty chronic cases reviewed, the definitely classified condition could be definitely traced to a period preceding the pregnancy by several months However, of the sixteen acute cases, it began during pregnancy in thirteen, during labor in one, and before

The prospects for continuance of the pregnancy to term is unfavorable in all forms. Of the acute cases pregnancy in two reviewed, pregnancy went to term in only 37 per cent, and of the chronic cases, it went to term in only 47 per cent The incidence of abortion and premature labor was high, but the author attributes it to mechanical factors such as dyspnoca and limitation of space by the enlarged spleen In both twenty four chronic cases and ten acute cases in which the pregnancy went to term there were two stillbirths Of the nomen with a chronic condition, sixteen

survived, of which two became pregnant again, and five died during pregnancy, labor, or puerperium Of the women with an acute condition, seven died in the puerperium and one left the Institute in poor

Grave hæmorrhages occurred in the third stage in practically all of the acute cases, whereas in the general condition chronic cases the loss of blood in the third stage was less than that in the cases of normal women

The treatment included splenectomy, blood transfusion, and interruption of the pregnancy, but the best results were obtained from the administration of arsenicals by mouth and X-ray irradiation over

The author's conclusions are summarized as folthe spleen

- Pregnancy does not predispose to these dis-2 Pregnancy aggravates both the acute and the 1075 eases
- chronic types of leukæmias and aleukæmias A child born of a mother with leukæmia or
- In the chronic forms, the mother tolerates parturition and the puerperium quite well, while in the aleukæmia is normal
- 5. It is best to allow the pregnancy to continue in acute forms death is almost certain
- 6 The most satisfactory treatment seems to be the hope of obtaining a living baby
- the administration of arsenicals and irradiation GEORGE C FINOLA, M D

6

# INTERNATIONAL ABSTRACT OF SURGERY

Atte. H. g. Persistence i conting of Programmy
After their commentation of party 1750.

After their that persistence would fire of pressure a steam neutron manifestation and that Asice claims that periodical variations or perg-analysis always activate establishments or perg-the changes found in the liver after death in case of another activates and the company of the company of the second company of the c the changes found in the over after treats in cases of such possible are due ( statustion and loss of gas-

the friend.

If attributes the resulting to distorted subconscale attempt on the part of the patient of the following of the masses of thirty three reaccors attempt on the part of the patient to the net act of the ferm. In the majority of thirty three re ant of the terms. In the majority or thirty three re-ported cases, evidence of a psychological conflict sector case evidence in a particularial connect of the majority and uniform success attended treatment by angresion

# Caffer P Death from Ectempote (Utber den 934, p. 905

It is noteworthy that up to the present time little It is noteward that the confidence of the confidence of the best known concerning death from that is case, to so were any a continuing we at the colampas. The author therefore made a careful examples for animal forcessor many a case of the some field case. Three of the some fided study or after satur cases. After or the southern disco-claring or shortly after an attack and is deed with symptoms of polymenty orders and read failure symptoms of pursuanty occurs and rand same In the cases of the next group an intermy was made to clerify the mechanism of sudden death from exhausts. One of the particular in this group there have a proper which commonly while the group there. ecompany tack which occurred a life are group own training an times a sum we content we may see a security from others are compared to the magness and two times are combed abortly after an attack in which only the cumbed shortly after an attack in which only the tonic phase had developed, but marked distributions of the police were noted between the thack and the tonic phase of the police with the first than the phase of the police with the police of the p occurrence of death While

occurrence of death White the first case supports for the first case support to the first case support case support case of the first case support c though typical examples country in boun or too in the conductive system which counted for the in the conductive spaten which commed for the integrality of the pulse following commed for the denity the took pulse of the attack tack Erf-damentos Processes to be accounted to the conductive of the attack as the most constant of the conductive dentity the four power or the attack is the most dangerous. Practical berreations and theoretical cantactors interiors partiamons and inspersives more important cause of death during or after an attack department cause or occasio during or actor on animo of examples than one form cassing account of the property and the death is columbas they be Theoretically account casta in crampass way of one of the following types

3. Death from applying of crafted capp of e to

Assorber the tabout of the tables policy that the tables policy in the tables of the tables policy to the table policy to the tables po Pearly from participation of the heart in the tonic phase of the eckemptic track

peach or the example (tack ) said from coronary spain, simils to angus. Perturb 4 Death from shock due citizer to changes in the

A feet of their stocks one cities to theorem it too Pages center Fracular statums in the metallic obcontrat or mitration of the bolimonary paraches of songerts, or implantion on the polimonary presence to the vague in the torne phase of the ecompite. Hack The author states that definite decision as to season in the tonic house or the committee trace. the tupo state that defente decision as a tell before of factor represents for the last overcome will be recommended by the state overcome the state of the state anustary anomals in same series of cases toppy is performed immediately after

In both of Cather's cases of death following An over or variety cases or contain massive supports of renal failure there was a marked case symptoms on retail taking there was a market one only in the properties of the left taking and apparently them. The left taking was functioning at one of the left taking was the standard of parently them the left taking was the standard a first taking. only the name country was inocuranced as one of the left kidney was the size of a few ideo. them for art anney was for mor or a great story.

These two cases were similar to the first case in Group t in which the right letthey should advanced Crosses and crack properties theretoes acresses and cracket properties the period of the contract of the contr caseous and types gaussians these transitions of the renel parenchy ma. From a perthese point of view these three cases may be reserved. acts from the year these times cases may be regarded as cases of solitary Endowy. The residues to ecta make

as cases of scottary samey I have to come to company of romey with only one kidney as about in the or stones with only one money as sooms in the series and in cases of unlisteral reprintations in somes and in cases or unacters representative does not differ from that of second to the interactive toda are uncer from that of that the tendency to develop estimpts depends that the tendency to develop examples depresded amount of rule parameters are received. However in case of examples and severe case. However in cases of celampsia and severe cessary, destruction of the parentyme, rapidly be comes so advanced that calcatenate rapidly be a come as a destruction of the calcatenate rapidly as a common contract that calcatenate rapidly is CORRES ON SUPERIORS COME STATES AND ACCOUNTS OF THE CORRESPONDED TO THE CORRESPONDED T the most severe and rapidly fatal cases seen in the foodbathers. Clink in the period of a ) are marked reduction in the amount of renal parenchy as a sail

And In conclusion the a thor may that determination of the realizable between economic and real to the instruments between communication between (P. CLYPTE) HARRING C. MACK, M.D.

Trains Race C The Neuronesteautre state in P. et Min Kan, U. 1 de neuromenture sun un expression de de Prefunery (Le 2010 deuromentativo and de de para de 15 de 16 The predicts of pregnancy has been attributed to the Preum is preparaty as occasionation in milesty stands with accordary bacterial invasion. The minery stage with accountry decrementary and the factor responsible for the stage is compression of a factor represents for the states it compression or a order by the gravid terms it addition to this mechanical process, a number of investigators have demonstrated that there is a because a second state.

mechanist process, a number or investigators have demonstrated that there is also an amounted force the uteter Klein, Kehrer and others the bretant About A currer was occurs attimate use metrics bal-

The author calls ttention to the fact that the injustive care retention to the fact four the drawy cutterby apparatus a morratum by a rea bet ore of nerve gampin (Hypatechal, Holbaner) het oet of herrs spagia (Hyperschit, Hofsser) as spon when the personals of the owier depends it is therefore the personal of the owier depends it is the sampet before and personal of the personal of the competition of the personal of the sympathetica have direct immence on arrival function. Since the function of any orang a dependtencing more the innerson or any organ is oriented and and in the said and the said are open to their and variationity any section arrangements of indirectly on the personal system, such as current or momenty on the calculus system, some states, some before also influenced the activity of the states.

The a thor lists all body foretton which then I ac a tace tous an overy concession trace tone and all almetrating expressions.

Has come and an unascount structure.

He exports there one of pretine of premaner in
which determinations of tone and excitability the when operation to the calcon potential be-schedule response, and the calcon potential bel-ence on made. The results showed that the asance or many is created shower that the many of somen affected with prelitie of propessor have hypertonic of the parasympathetics. Whether the predominance of the parasympathetic influence or a deficiency of the sympathetics is re sponsible for the diminution of tone is uncertain GEORGE C FINOLA, M D

## LABOR AND ITS COMPLICATIONS

Voron, J, and Pigeaud, H Managed Labor The Efficacy and Innocuity of Certain Procedures Intended to Direct the Course of Labor (L'accouchement dirigé Efficacité et innocuité de certains procédés destinés à diriger la marche du tra vail) Gynec et obst , 1934, 30 113

By the term "managed labor" the authors mean labor influenced by the application of a series of procedures, some purely obstetrical, such as artificial rupture of the membranes, and others purely medical, such as the subcutaneous injection of spasmal gine and extract of the posterior lobe of the pituitary gland or the administration of quimine or chloral by mouth These procedures are intended to accelerate the progress and diminish the pains of labor

Artificial rupture of the membranes definitely accelerates the progress of labor in normal cases The authors believe it should be done in every labor when the pelvic measurements and uterine contractions are normal, the fetus is of normal size, and the

cervix is dilated between 4 and 6 cm

The subcutaneous administration of spasmalgine diminishes spasmodic contractions of Bandl's ring When such spasms are recognized, it is possible to inject several ampoules of spasmalgine at intervals of fifteen minutes without causing harm. In many cases in which spasms of the lower uterine segment could not be diagnosed definitely but the uterine contractions were so frequent as to be almost constant, a single injection of spasmalgine has resulted in proper spacing of the contractions and suppression of the extremely annoying lumbar pains. The authors have given as many as five injections of spasmalgine during labor without causing injury to the fetus While spasmalgine should not be administered routinely, it finds numerous indications during labor

The subcutaneous injection of extract of the posterior lobe of the pituitary gland in doses of 2 international units is incapable of producing exaggerated uterine contractions or tetany, but in the great majority of cases is sufficient to overcome relative uterine inertia developing during labor, either before complete cervical dilatation or during the second

The administration of quinine sulphate or syrup of chloral by mouth is an old practice which has been proved to be a valuable adjunct to obstetrical

procedures

These methods of directing labor were investigated by the authors by clinical and graphic methods For study of the uterine contractions the hysterograph of Fabre was used The findings demonstrated that the procedures are efficient and innocuous

HAROLD C MACK, M D

Gauss, F J The Conduct of Labor in Cases of Placenta Prævia, with Special Reference to the Scalp Forceps (Die Geburtsleitung bei Placenta praevia unter besonderer Beruecksichtigung der Kopfschwartenzange) Fortschr d Therap, 1934.

The author first compares the results of the management of cases of placenta prævia in the clinic at Wuerzburg during his directorate there with the statistics of Ammonn based on the world literature. This comparison shows that the results are most favorable for the mother in cases of spontaneous delivery However, spontaneous delivery is possible relatively seldom Cases of manual rupture of the sac may be reckoned with those of spontaneous delivery Vaginal tamponade is to be rejected as particularly dangerous for the mother The internal version of Braxton-Hicks is unfavorable for the mother and associated with an infant mortality of from 70 to 80 per cent Similarly unfavorable is the pulling down of a foot in cases of primary pelvic presentation Metreurysis (extra-ovular and intraovular) may somewhat reduce the infant mortality, but does not reduce the maternal mortality ticularly dangerous is immediate extraction after This is never done at the Wuerzburg clinic According to the statistics based on the world literature it has a maternal mortality of 10 per cent and an infant mortality of 50 per cent The results of abdominal casarean section in the Wuerzburg clinic are poor, but this unfavorable impression may be due to the relatively small number of cases. The statistics based on the world literature indicate that results are good as far as the life of the child is concerned, but the maternal mortality is still 7 3 per cent

Recognizing the fact that the results are best when delivery occurs spontaneously, the author worked out a special method which, even in the presence of total placenta prævia, permits a sort of spontaneous delivery Following either rupture of the sac or perforation of the placenta, the infant's scalp is grasped with a specially constructed scalp forceps, a certain amount of continuous pull is applied to the forceps, and spontaneous delivery is then awaited Hæmostasis is obtained by the constant pull on the forceps That the indications for this procedure may be widely placed is indicated by the author's statistics which show that since the introduction of the method "spontaneous delivery" has been rendered possible in three-fourths of all cases of placenta prævia, in the great majority of which the scalp forceps were applied Of eighteen mothers, only one died and the latter was already infected at the time she entered the clinic. Of the infants-with the exception of those already dead when the forceps were applied and those in a few cases in which the forceps method was used when not indicated-75 per cent were saved basis of his experience the author urges that his method be tested in large numbers of cases

(VON MIKULICE RADECKI) JOHN W BRENNAN, M D

### PURPPERIUM AND ITS COMPLICATIONS.

Michen, P. and Louyer, J.: Two Coore of Severa Pastrperal Anaemia. (Denz eas d'autrale grave dans le post-partum). Bull Sec d'ésel et de grate. de Par 934, 24 443

Two cases of severe puerperal anemia with no merous features in common are reported

The first was that of woman twenty-three years of age who came from large family. Of her eight brothers and sisters, six were living and well and two died in infancy. At the age of fifteen the pa tient had envelopeles. She has been married for eighteen months. She was somewhat pale, but her general health was pourently good. She became prognant at the end of the tenth month of marriage, and the course of her programmy was normal on to the sixth month She then bers to suffer from is tiggs on the least exertion and developed redema of the lower extremities. She gamed the impression that she was carrying twim Examination at that time revealed albumin in the urme and blood pressure of 160/100 Under dietary treatment the al-bumbs decreased somewhat Slight gaugiral and nassl humorrhages preared then without apparent CENTRE

Labor pains began at the end of the eighth month of pregnancy. When the patient was admitted to the obstetrical clinic on December 1 ars, she was strikingly pale and presented traces of gargival hemorrhage and a slight ecchymous on the left thigh and in the glutest region. The liver and spleen were normal. The pulse rate was as per infante. and there was a systolic marmur t the base of the beart. The urine showed traces of albumin. The

blood pressure was 60/100

The labor terminated in the delivery of twin boys weighing 1,500 and ,050 gin Following delivery the paleness because more pronounced. The first few days after labor the temperature was normal, but the patient was very weak and began to complain of a decrease of vision. Examination of the eye grounds revealed bilateral hemotrhagic retinith with perimecular and perspapellary hemor

thanc plaques, ordens, and exodute The findings of the blood cell count were red

cells, 1,440,000, white cells, 3 700 neutrophiles, 64 per cent cosinophiles, none basophiles, none lymphocytes, 31 per cent There were no abnormal red calls. The bleeding time was ten min tos. The congulation time and the fragility of the blood calls

was porteal The emergia became more severe in spate of treat ment On September so the red cell count was a accor and the white cell count accor Under the influence of a few small transfusions the anerous decreased somewhat. The temperature varied daily from 57 to 29 degrees C. The patient complained of dyspaces and severe precordial pame. On January transferion of 60 cers was poorly tolerated, but symptoms of shock did not develop. The condition became gradually worse. On January 8, the

temperature rose to 40.6 degrees C. and the patient became consitose. At this time a rough diestole murmur was heard at the base of the heart. The blood pressure was 100/55. The liver was large and tender. A severe ordena developed in the lumber region and the abdomen became distended but the abdominal walls remained soft.

A probable diagnosis of stallgastat endocuries was made and distalls therape instituted

On January 27 the temperature fell by criefs, the precordial pains crased and the appetite began to improve Thereafter recovery was rapid The dustols: murmur disappeared and the patient be-came able to get up. While even then the rad cell count was 678,000 and the whit cell count 6,100. the general condition was so good that it was difficult to keep the patient in bed. On May 15 she still appeared somewhat pale, although the tolor of the mucous was normal. The pulse rate t this time was 80 per minute and there was a slight Evistolic murrour at the base of the heart. However, there was no dysonous and no attenue, and the liver and splean were normal. The blood pressure was roo/55, vision was perfect, and the red cell count was 3 580,000

The second case is also reported in detail. In summericing their findings and conclusions the a thors call attention to the fact that is both of these cases an approvic state was present before labor. in one of them ten months previously and in the other two years previously. The conditions which favored the development of the severe postparal anemia were, in one case, a multiple pregnancy and in the other antiluetic therapy in addition to a considerable loss of blood during labor. In both cases the sammin was aggravated by massive destruction of red cells immediately following de-

PARCA The authors emphasize that it is necessary to differentiate between an amemia directly related and determined by pregnancy and a pre-existing animis aggravated by the postperfum. In both of the cases reported the cardiac syndrems characterized by severe precurdial pains, dyspones, the absence of pulmonary signs, and a basal describe number led to an erroneces diagnosis of malignant endocurbin Also be both eases transferious were of doubtful value and liver extract and general measures were Action S SCHWARTERIN M.D. more effective

#### MINCELLAREOUS

Sodano A. The Reaction of the Blood to Gutta Dispitet in Obstetrica (La reazone del seagne s guttedasphot nel campe estatues) And di sale PHE 1934, 41 483

Sodano checked up the value of the guttadisplot reaction as means of diagnosting programmy as it has been claimed that this reaction is quite as de pendable as the reaction of Aschletin and Ioselck. He discusses the theory and technique of the test and summarises his findings as follows

In ten cases of advanced normal pregnancy the guttadiaphot reaction of Mayer, Bierast, and Schil-Burtaunaphor reaction or mayer, pierasi, and semi-ling was always negative in the blood of the woman, and the blood of the umbilical cord after parturition 2 The reaction was negative also in SIX cases of

eclampsia, both in the blood of the woman and that

3 Of six cases of pregnancy in tuberculous women, it was positive in the maternal and fetal blood in of the umbilical cord two However, it was not very definite and was less marked in the fetal than in the maternal blood 4 Of twenty cases of pregnancy in luctics, it was

positive in the maternal in 75 per cent and in the

The author concludes that even though the reaction does not always give positive diagnostic evifetal blood in 85 per cent dence because it is neither especially sensitive nor specific, it may prove of value when its technique is better developed, particularly for a quick diagnosis

Schuman, W. A New Measurement (Clinical) for Estimating the Depth of the True Pelvis An J of syphilis

The purpose of this article is to call attention to the use of a new external measurement based on the

suggestions of Caldwell and Moloy and intended to

estimate the depth of the true pelvis

Since it is the anterior portion of the pelvis which presents the most frequent and distinctive characteristics of the male or android type of pelvis, accertaines of the maie of antique type of pervis, at it is quite logical to seek, in the fore pelvis, a measurement which will represent the most constant of the male characteristics, that is, increased depth In measuring the perpendicular distance from the tuberosity of the ischium to the iliopectineal line in the pelves of fifty-three white males and fifty white females Todd found that this distance averaged 101 mm in the male and 90 mm in the female The author takes this measurement after the in-

tertuberous diameter has been measured, and with one end of the pelvimeter still on the tuberosity, swings the other end around to a point on the upper swings the other end around to a point on the appear border of the superior ramus of the pubis directly perpendicular to the tuberosity. averages 11 5 cm Allowance must be made for pubic perpendicular to the tuberosity averages 11 5 cm Anowance must be made for public and gluteal fat In the cases of persons of normal and glucar late in the cases of obese persons, 2 cm, and in the cases of obese persons, 2 cm, about the cases of obese persons, 2 cm, should be allowed for the soft parts Schuman calls the measurement which is obtained in this manner EDWARD L CORNELL, M D

the "pubotuberous diameter"

# GENITO-URINARY SURGERY

# ADREMAL, KIDNEY AND DRETER

Walter, W. Wilder, R. M., and Kepler, R. J. The Septemental Cortical Syndromes with the pres-materials of Ten Cases. Ass. Two. 15 (1995) Suprarrant Cortical Syndrome with the Pres-emination of Ten Cours, Ann Jury 934, 100-

The records of ten cases in which the supraremet increases or on case in when the superment ordical randoms was present an example superment past the John as more the advent of Peters present come of the certical hormone, for fetting particles have recovered on white one removed death. been operated on with one operative death from an abbatunity accidental came an apparently acceptant cause. Laste was one homogenative death. In the tenth case, in both hon-operative Gonta in the term case, in one operation was performed in 91, death occurred the special position of the superior of the special operation of the superior of the superior operation operatio There was one This fatality might have been prevented if active superioral cortical hormone had been valiable for importry use In five of the case, supramal temporary use in my of the case, supersual monors are found to direct different participal and to the supermust plants of homes and to two supermust plants of homes appearance. In three case respectively and the supersual case, and the supersual case is the supersual case. appearance an inner other authors removal or the farmor at followed by rapid rount to normal of processing and processing processing and the conditions with processing the conditions and the conditions are set of the conditions and the conditions are set of the conditions and the conditions are set of the conditions and the conditions are conditions as a set of the conditions are conditions as a set of the conditions are conditions. farrennsy summan payers metasone commons with tumor ded. The patients with tumor ded. The patients and Ano journal with course uses the parametry and parametry and the patients were not Process occupies on one or those patterns are son canning in the other they are judged normal subports serial sections of the patients prody seri-nor made in two of the three cases of full use byper-tions of the case of full use byperhay make an two or the universease or one see experitory and hyperplants (in one of which operation topay and appropriate int one or wines operation was not performed antippy revealed no abstraintiffy and the advantage of the second se of the hauter better and administration of the hauter of the third case as a second of the hauter of the third case. obesarbon assibustated accounty, the barrent is now on the form of the barrent and the bar pood condition, and the roomigenogram of the to fiver coordinate, and the foundation of the section in normal. In one of the two cases in sein turner a normal in one or the two cases it posts the particul gands wise normal in Posts notes the operation for the patient det from printing the patient det of the patient det of the patient det from printing for the operation for position of the district details and the district de months after the operation and postmerten exam-fination of the primtery body revealed basephile address as in the other case the patient is living but general to the other case the patient is nying but the rosingenogram of the sells (urner discloses dis-

the insurance and the seas there are season to the fortion segreting plintery terms.

These case indicate that segred exploration of the season of the seaso the appearmal glands as advantile whenever the properties of broaden in opened spice of broaden throad a beginn the control standard and a spice of the control of the contro definite ordered of patentiary is overywar someone. The beared steening the itmoval of tumora or re-The outsin sciencing on insuran in tonicas or re-section of large portions of hyperplastic suprassing guests has pean tequiced to the unuminal account or wide forcinate or myberlaretic

beshouse, R. S. Preiographic I section of the Perironal Lymphatics. In J. Sery. 934, 3

Abeabouse discusses the relation of preiol m. phatic backflow ( chylings, the anatomy of the phatic backhow t crymna, are anatomy or the imphatics of the latiney and the mechanism of beckflow from the renal paranchyma and peivra to the renal paranchyma and peivra

He states that injection of the particul lym philic during retrograde pre-deproy the so-called prescription of the so-called so-cal Presymposite coexcave a cost to contract and most interesting phenomena in urology. From two cases he reports and deven cases collected from the

Case he reports and eleven case concerns from the first turn, he draws the following conductors of The phenomenon of pred probatic backfore and the distinct demonstrated by the phenomenon of the can be distinctly demonstrated by injection of the can be excited y unnovariated by supression of the control of the tens and personal proposition during predigratory. While this phenomenous has been observed in the certainty according to produce (in some have not been entirely according to be some of the certainty according to the sound in the certainty according to the sound in the certainty according to the certainty according to the certain according to t

are not occur managery succession.

I Injection of the remai and performal tymphatics a intertion of the result and petersus irrapassed within preferrancy occurs not only in the present of persuase of persuase of persuase of persuase of the intertion of persuase of the intertion of persuase of the intertion of t If the mechanism coccurred in the preferrable dimensional of the communication between the pedrus and the remai and performal (implaines is disputed Apparently however injection of these

rapparies to the to penetration of the precipitable Oraporates of the inference of the harmstehr renel lymphetics

tent symposises

A he acquired type of anomalous small fraphatics, which is esselly successful with objects

and the state of the sta a exemplified by the distance and formout of the as ecomputed by the distribution and continuously to the result lymph vessels following obstruction of the tone truth the control of the contro heart disease in the thoraco, mediatrial, periodella, or retropetioned report. The dyfarm is the useful of the labour of one or more of the dutted tenut or toe repture or one or more or toe uniten furthous lymph wessels which satisfulles a comtorques tympo veners when measures a con-munication between the renal tymposities and the autoration between the same points of repeated pelvin. It is through the same points of repeated pelvin. tens perva at a unusign the same peans in that the contrast seeding penetrates and injects the tend and perional hymphatics

The construct type of anomalous renal lympastics bestoo is impossibly because in cross of infected batpastica in proposory premiu in cases or injectica para renal lymphatics without a demonstrable chylena tensi (ymposters without a demonstrator curied and in some of the cases with someonic continuous co here. Father to demonstrate this type of anomalous remaining the physics may be explained by the acasthess of the acasthess and the physics are the physics of the acasthess and the physics of the acasthess and the physics of the acasthess are the physics of the acasthess and the physics of the acasthess are the physics of the acasthesis and the physics of the acasthesis and the physics of the of our knowledge of the normal anatomy and place or our anneauty or the earnest anatomy and payers of the recal lymphatics, the searcity of pathopposit sheepons would not created as an opconstant spectrosms accounts are caused as the control difficulties recognized in injecting normal ferment emention encounters in injecting to the type, and pathological renal typeplatics. In this type, and pathogonal repair (Jophanica in tan 1/10, and commend structure of emetanase variation in the course and accurate to the renal lymphatics may produce direct communication bet et the renal lymphatics and the peive which will permit easy poperation of the pelvin graphic fluid

Overchatention of the renal polyti and excessive Pressure during the prefegrable commentee are not factors in the myector of the renal ad perurIn conclusion the author says that his findings emphasize the need for further careful pyelographic studies in cases of partistic and non parasitic chyluria of renal origin to determine the exact point of communication between the lymphatic and urinary systems and to increase our knowledge of the renal lymphatics.

C. Trayres Steats, M.D.

Calef, C. Chromocystoscopy with Phenolsulphonphthalein in the Diagnosis of Klóney Function the cromocystoscopia alla fenolsul fontaleina dal punto di vista diagnostico e fun gionale). Irib tial di ur 1, 1034, 11, 40

The author emphasizes the value of chromocystoscopy with phenoisulphonphthalein in the diagnosis of kidnes function and presents tables showing his findings in tuberculosis of the kidness calculosis, pronephrosis nephroptosis prelitis prelinephritis, hydrorephrosis various other conditions of the unitary tract and diseases not involving the unitary tract such as appendictis and cholecystus.

When the kidness are normal the dive is climinated in from three to five minutes. In the presence of a pathological condition its climination is slower. When its elimination takes place in seven or eight minutes. Fidnes function may still be considered good. While there may be slight retardation of elimination by the normal Fidnes, when the other Fidnes is seriously diseased elimination requiring more than eight minutes usually indicates, defective function.

When elimination by the normal kidnes is retarded other tests should be made before radical operation is undertaken but when chromocy-stoscopy gives normal values no other tests are necessary

Phenolsulphonphthalein is put up in sterile vals ready for use. Therefore it is unnecessary to prepare the solution fresh each time. Phenolsulphonphthalein is eliminated by the kildness alone and therefore particularly yell adapted for the determination of renal function. As it does not cause turbidity and is not deposited in a layer on the floor of the bladder, it does not interfere with existoscopic examination. The theory that, as homaturia and various di eases of the bladder increase the red color of the tissues, the elimination of phenolsulphonphthalein, which is also red, it may be difficult to observe, is not valid as the red color of phenolsulphonphthalein is distinctly different from that of the tissues.

In all of the author's cases chromocystoscopy with phenolsulphonphthalein give results in agreement with the clinical findings. Calef is therefore consinced that chromocystoscopy is of great value and that phenolsulphonphthalein is preferable to the other substances used for chromocystoscopy.

ALDRES GOSS MORCES, M.D.

Vermooten, V., and Neuswanger, C. II. The Effects on the Upper Urinary Tract in Dogs, of an Incompetent Ureterovesical Valve. J. Urol., 1934, 32, 330

In the hope of obtaining dilatation of the ureters and incompetence of the ureterovesical valves pre-

liminary to an attempt at experimental reconstruction of the valves in dogs, the authors repeated the work of Gruber. Gruber reported that in the dog the amount of valve excised determines the degree of incompetence and this in turn bears a direct relation to the degree of ureteral dilatation and hydroneph rosis obtained.

At intervals of from seven to eight weeks after the valve operation and just prior to the sacrifice of the animals the authors made existograms with the use of a 20 per cent solution of sodium iodide. Their observations and conclusions, which were fundamentally different from those of Gruber, are summarized as follows.

1 Complete excision and incision of the ureterovesical valve in the dog will always result in incompetence manifested by regurgitation of the vesical contents up the ureter

2 Regargitation of uninfected urine up a normal ureter vill not cause ureteral dilatation

3 Regurgitation of infected urine up a normal ureter will not cause ureteral dilatation

4 Regurgitation up an infected ureter will result in ureteral dilatation

 "Ascending ' infection does not necessarily occur v hen infected vesical contents are regurgitated up a normal ureter.

6 Uretural infection may occur as the result of

ulceration of the urcteral epithelium

7 Phis infection may progress by direct extension up and down in the loose arcolar tissue of the tunica propria of the mucosa synthout the aid of the lymphatics

S. If this infection extends up under the epithelium of the mucosa lining the renal pelvis and

calvees prelitis results

o Under such circumstances the ureteritis is usually limited to the tunica propria and does not extend into the ureteral musculature

10 In no instance was periorcteral inflammation observed C Travers Stepies, M D

Uhle, C A W Gonococcal Pronephrosis Report of a Case, with a Review of the Literature J Urol., 1034, 32-335

Uhle reports a case of gonococcal pyonephrosis in which the diagnosis was proved by smears, cultures, and fermentation and serological tests. The pus was obtained by pyelotomy. Uhle cautions against making a diagnosis by means of stains alone because by this method the gonococca may be confused with other diplococci.

The infection is frequently due to a mixed strain. The pathological changes do not differ from those of other acute or chronic infections except that some times the number of plasma cells is greater than in non-specific infections. The portal of entry is doubtful.

Of the cases of gonococcal renal infections pre viously reported in the literature, only twelve met Uhle's requirements for proof

TRANK M COCHEMS, M D

Roccent, A. I.A. Contribution to the Study of Son, come of the Director (Contribute Alle Study of Son, contribute Alle Study of Son, contribute Alle Son, contribute and son, contribute and son, contribute and contrib INTERNATIONAL ABSTRACT OF SURGERY

Somal reports size sace of stends of the lates must of residual segment of the order All of the patients are females. All of the control of the said demonstrative and states and seems and seems and seems are seems. patients were temases Acous or toem man democratic fitable foci of infection or gave a history of recent actual form of infections of gave a majory or recent against infectious discusse. In eight, the statuous a sa-

in the author opinion the cause of atmosts of the in the author openion the cause of stenous of the untir h an exercise for the unitry h an exercising inlateratural segment of the uniter is an exercising to-fection from the genital trace. As this segment of the union the grant that As the arguest of ment by ingrammation may tenth to could opstruction of the alertical joined mean as memorial to the communication may be

The treatment indicated is oreteral dilutation

## PETER A ROSE MID

HIADDER, URRITHEA, AND PEND School, # and Detrophony O D. Oyettin Employers (1) In an Exterly Detailed Members Working Schools Indian.)

Twenty-siz cases of cyatilia complyaematosa are Trenty-six cases of cystills emphysematous are on tended Minetteen of the patients were females at the condition of the patients were females as a patient of the condition of t

as towns at autopsy. The author, first case was that of woman sixty The authors flux case was that of woman drive to your of age who died eight bours after her administration to the hospital. The strike this case had mission to the computation of the state of the case and and reaction and segar content of + The segar content of the shoot was such and the curtous of the c content of the blood was high, and the carbon, the bladder was found distracted by 400 cm of the manner was sound unassessed by 400 can be united united. The unite segment charged with \$25. turned uring the crime segment charged with gas bubbles. The wall of the bladder felt like a spoogs the antire muchas was or one occords with white creations. The entire moneys are concine and abuse cachiguity

reacting singley in size from that of a problem of that of a spile yea. The section was required and credible become from the section are required and to you think the state of the safe monoan was to be a section of the bander nonten in water the gas venices the epithelium was deficient. The submitted and the epithelium was demonst. Les seconscess and in-muscle showed marked congestion, ordenze, and inmuch showed marked congration, orders, and in-diffusion by round cells, consuming, plans cells, and lexcept the There were sense and thereone, and sense and many open space according to the latter of probability. Multipacted that cells were the consuming to the consuming to the latter consuming to the consuming to the latter of the con-traction beautiful and consuming to the con-traction beautiful and con-traction beautiful and cells were here imposed annihilation for the rest con were continued to the second continued beating beating primers control answer transpositive sections allied to the beather coh community which fermented auten to the pactures can communia which remembers assertion and dectrose. The same form was found in

he tractes.

In the account case, that of a female infact three in the access case, that or a termine misse third months old, the mine was old, showed albumb and postelia old, the same was out showed albumbs and collection. Following the demonstration of seculors. Following the demonstration of the collections of the collecti call communis forwards the distinguishment of the fibross + copper reduction was obtained. Exsamination of the community front substanced. Exsection of the community of the hemorrouse: (value with empoyeems or the mocose and ascending balateral pyrionephints: On the left

side there was two proton and prime. The bibliodic macons was homographic. Solitary and entirely and pulped and phoposis size corrections. has process of process and proposed are covered to strike muccoss, but here most sumerous is the cautro mucosa, Dut were most sumerous is the namortmage some but without wife her process or music layer Culture thereis the baculus coli communis.

Smith, A. J. D. The live of Radium in Correspond of the Mackets Rev. H. St., ph.

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If believes that carringments thought to be be-H. Daileren tout carcinomata throught to be an operable when first seen all respond to radius operators account the early nethods of radius thempy if review the early methods of radius modern method of languardian and greens the modern method of languardian radius seeds by mean of the contract of languardian radius seeds by mean of the contract modern method of impatibility range across of statements of the transto the Commercial by the appropriate root and the mass by distance by the suprapular root and the fattories of radon seeds into the base of the indicated at 15000 seem into the one of the tumor. When rades sends are used recognized should be taken after farty-with thours and after four days to make some that all of them are out after four souls indicate the fact of them are out. Rades to the fact of the same to the sam tary to make some coat at or them are one. Known seeds lying free in the bladder are pensed pathons?

at the first erination. The operative mortality of at the first estimation. The operative mornily of a report of the partial practically and transplantation of on surface of the partial practical practical and the partial practical and a surface on the partial practical practi

personal to security cast the impactance or taken seeds by means of the cystoscope abould be limited seems of measure or the cystoscope about to menter to cases of middless careflooms and more than a or to case or paperary carmoons see more case a se 5 cm in distractor. In others the sensor stead to the sensor securit be 3 cm in mameter in others the kenon several of percential by the suprapulse route infiltratias Personnel by the superpulse four Americans should be reacted as for at possible Catchern assemt to tracted as tax as bossesses cases for radium treatment

Selvesti. (A. Cencer of the Urethra in the Hale (Selvest) drift write marchie) drift, but if and \$16.

Primary fumors of the urethra are rare. Since the Theoret on such acoptains by This others in \$11. report on such acoptains by I american in any about no bare been recorded. The came of only attent sto have been recorded the came of methys cancer like that of cancer is general, is arctural cancer take that of cancer as femeral in many cases geometries and its Acquain seem to play an important role in the development of the lexion Rend, Imbert, and Tatoo found sociotions in 60 per cent of cares and ton tound gonorcions in so per cent of cases and found it in 40 per cent. Edelman her rebeginn found it in 40 per cent administration from some with smilest currently for the format of the foundation from the sensite of the foundation for the foundation women with semisi curranns mecane or an chronic inferiory laters, some investigators carouse measuratory stricture and the frame arrendaments. desired with the instituent produce children and careful changes

cancer of the rate erethra is roost common be tacen the fine fine states at fine common or the first of fifty and starty jears, but is often facen has sto or may and many years, out a wise found earlier. It develops most frequently in the

perineal portion of the urethra where the normal perment portion of the urethra where the normal epithelial changes are most marked and strictures Before the tumor reaches the are most common before the tumor reacnes the external surface of the body it is manifested only external surface of the body it is mannested only by an indurated mass of varying size along the by an indurated mass of varying size along the urethra with or without changes in the adjacent After the skin has been perforated the lesion presents the usual characteristics of an ulcerresion presents the usual characteristics of an ulcerated neoplasm to which may be added secondary ated neoplasm to which may be added secondary infection from contamination by the urine. Thereinfection from contamination by the urine frace adjacent after, the tumor infiltrates and destroys the adjacent

Histologically, the tumors may be of mesenchymal or epithelial origin Benign connective tissue tumors or epithemat origin penigh connective ussue tumors are rare Malignant tumors, which are more comare rare municipant tumors, which are more common, are usually found in young persons and may ussues mon, are usually found in young persons and may occur even in babies They include round-cell and occur even in names They include round-cen and spindle cell sarcomata, melanomata, endotheliomata, lymphosarcomata, and epithelial tumors, Malignant epithelial tumors may originate in either the epiepitnellal tumors may originate in either the epithelium lining the urethra or from some of its glands They spread by direct extension Metastasis to the ney spread by direct extension metastasis to the nodes takes place late According to Wasserman, it nodes takes place late. According to Wasserman, it occurs in a third of the cases. Visceral metastasis, which is more frequent, occurs to the lungs, the which is more frequent, occurs to the fungs, the skeleton, and, by retrograde spread, sometimes to skeleton, and, by recrustrate spread, sometimes to the testicle Selvaggi calls attention to the fact that the lymphadenopathy in the groins is often inflam-

The early symptoms, which are those of urethral obstruction, may be attributed by the patient to an Later, the symptoms are those of an infiltrating, ulcerating, destructive lesion complicated by infection and often by a old venereal infection urmary fistula Early diagnosis may be difficult, urmary nstula garry magnosis may be dimented especially in cases with a pre-existing stricture. especiany in cases with a pre-existing stricture Urethroscopy, cathetenzation with an olive tipped bouge, or rectal examination may yield valuable diagnostic information in the differential diagrams, prostatic and perineal abscess, benign strict. ture, inflammatory lesions, and benign tumors must diagnostic information be excluded An exact diagnosis is possible only by

The prognosis of urethral cancer is poor as death usually results from a urinary complication. Howusuany results from a urmary complication. However, it is greatly improved by early diagnosis and

The most satisfactory treatment of cancer of the male urethra is radical surgical operation. In a cercorrect treatment mane ureums is raunal surgical operation. In a certain few cases of well circumscribed lesions resection of the urethra may be done, but in most cases ampuof the urethra may be done, but in most cases amputation of the penis, often with amputation of the tation of the penis, often with amputation of the scrotum and dissection of the inguinal nodes, is the operation indicated. In some cases prostatectomy or resection of the bladder may be necessary in addiof resecution of the manuer may be necessary in addition. In many cases only a palliative operation for relief of the symptoms is possible. In this group, rener or the symptoms is possible in this group, irradiation in addition to the operation is of value, The author believes that dependence can be placed on radium or X-ray irradiation only for palliation To date, the incidence of cure has been reported as

about 10 per cent

Selvaggi reports a case of fungating tumor of the Selvaggi reports a case of lungating tumor of the urethra in a man fifty-seven years of age who had a The diagnosis post-gonorrhœal urethral stricture Radical operation supplewas made by blops) kadical operation supplemented by roentgen therapy was followed by a good result.

Vinticl, V, and Alterescu, H A Case of Malignant Non-Carcinomatous Tumor Primary in the Non-Carcinomatous lumor rrimary in the Corpora Cavernosa of the Penis with Visceral COLPUTE ORVETHOSE OF THE FEIRS WITH VISCETAL and Osseous Metastases (Un cas de tumeur ma ligne non carcinomateuse primitive des corps caver ngue non carcinomateuse primitive des corps caver neux du penis avec métastases viscérales et osseuses)

In a review of the literature the authors were able to find only thirty-five cases of lesions similar to to and only the case they report in this article Their case was that of a man twenty-two years of age who first noticed a small firm tumor on the age who first noticed a small firm tumor on the lateral side of the penis near the base in November, The tumor rapidly increased in size, and in February, 1933, when the patient first consulted the authors, it involved a considerable portion of the pens and there was pain on urination A diagthe pents and there was pain on urmation of the corpora cavernosa nosis of plastic induration of the corpora cavernosa nosis of plastic induration of the corpora cavernosa was made and irradiation treatment was given When the patient was seen again on April 24, 1933; he had lost 12 Lgm, in weight, the local lesion had ne nad 105t 12 kgm in weight, the local resion had become increased considerably in size, the penis had become concal and rigid, and there was involvement of the The urethra, penoscrotai region and permeum and epididymis corpus spongiosum, vas, testicles, and epididymis penoscrotal region and perineum were apparently not involved, and the skin overlying the lesions was apparently normal Urination was normal, but erection was extremely painful General examination disclosed numerous metastases to the subcutaneous and deep tissues of the forearm and the legs, around the iliac crest, and in the lungs and bones Laboratory examination was negative Two attempts at biopsy were made, but were incomplete because of hæmorrhage Aspiration of one of the nodules disclosed numerous round cells which were undoubtedly malignant Because of this finding and the extreme vascularity of the tumors the authors concluded that the neoplasm was a round-cell sarcoma developing in the fibrous tissue septa of the corpora cavernosa

The patient was given further X-ray treatment and sent home. He died several months later, soon and some nome. The died several months factor, soon after the occurrence of pathological fractures of the NATHAN A WOMACK, M D right humerus and tibia

# GENITAL ORGANS

Carli, C Torsion of the Spermatic Cord (La tor sione del funicolo spermatico) Arch stal di chir,

Carli reports a case of torsion of an undescended testicle in an infant eleven months old, reviews the hterature on the condition, and discusses the pecuharities of his case

Three days before his admission to the clinic, the child, who previously had been well, began to vomit and the mother noted that the undescended testicle in the right groin had become larger firmer and apparently painful. The application of hot forecenta-tions by the mother was followed by periods of relief with intervals of exacerbation of the pain. The swelling in the green remained bout the same size

On physical examination the left testicle found to be of normal size and situated in the acrotum. The right half of the acrotum contained no testicle. In the right green there was a mass the size of a pigeon s ogg which, when manipulated, caused the child to account

A diagnosis of torsion of the spermatic cord of an undescended testicie was asade and immediate oper ation advised. At operation the right featicle was found in the right inguinal canal. The funice vagirealls was markedly destended and contained a sero-barmorrhagic field. The testicle and epidlelymis were purplish. The spermatic cord was rotated 180 de-gress from right to left. The tension was above the yaginal sec. The acrotal ligament was absent. Ac hernia was present. On account of the degenerative changes in the testicie, orthodectomy was performed Recovery was uneventful

Histological examination of the texticio showed an interstitial hemorrhagic utilitration and reduction in the number and pecroses of the semiplierous

tubules

Carll states that torsion of the spermatic cord before the first year of age is rare, only about ten cases being on record Extravaginal torsion is also unusual, only about twenty cases having been re-ported. He reviews the possible mechanism of tortion PERMA A ROSE, M.D.

Acute Tuburculous Epididymitis and Epididymo-Orthitle. Ade chray Scand

Sjörtrand, T 934 75 129

The a thor reviews 68 cases of acute tuberrulous epididymus and entifdymo-orchits of studen onect in which the condition was accompanied by fever deterioration of the general condition, pain, and redness of the scrotal skin, and is many respects resembled chinically sente septic and genorrhead epedidymits and spendymo-orchitis. To compare this form of the disease with tuberculous epichdymitus and epidedymo-orchitis in general, he reviews also 500 ctues of male genital tuberchious collected from the literature

Of 300 cases of tuberculous epididymatis and epididymo-orchita, 7 per cent were acute from the beginning and presented the clinical picture observed in the author's cases

The acute form of the disease may occur at any

go, but in 48 per cent of the reviewed cases it developed between the t entieth and thirtieth years Heradity is not an important factor. In 9 of the reviewed cases the cause was traums in 5, over exertion in a unfluence in a gooderhood methrita, and in cold

Tuberculous changes in the prestate and semisal vesicles could be paiputed in 66 per cent of the scrite cases and he per cent of the total number of cases of tuberculous epididymitis

Tuberculous changes is other organs could be demonstrated in ay per cant of the acute cases and so per cent of the total number of cases. In only a lew of the scute cases were these changes serious

The ecute and apparently serious form of gentle tuberculosis has a more favorable prognosis as regards life, but a greater tendency to become bilateral then tuberculous epidsdymitis in ameral

In two-thirds of the scuto cases a probable disc nosis can be made by rectal palpation and in some of these it can be confirmed by the demonstration of

tubercle becilii in secretion prosed from the postate If the diagnosis is made early operative treatment can be hardted to epichdymectomy. When the condtion is advanced, castration must be performed

To ascertala the factors determining the prognosis as regards life and recurrence fo tuberculous colddymatis and epididymo-orchitis in general the author grouped the 500 cases reported in the literature et cording to the time that had elapsed between the oxeet of the discuss and the patient's admission to the hospital and determined the percentage is each group in which there were pulpable changes in the prostat and seminal vesicles, the percentage is which the condition became bilateral, the percentage in which tuberculous changes occurred in other

organs, and the mortality
The prostate and sensinal vencies were involved in 60 per cent of the scuts and subscuts cases. In the chronic cases the incidence of such involvement in creased with the duration of the cheese.

Recurrence and bilateral lavelysment were made frequent in the cases with inherculosis of the pros tate and seminal vesicies

The mortality depended entirely on other inherculous changes in the body

rsella, A.) Absersant Advanal Thems in the Spidistynata (Sel reperts de cassets ottorrande abstrant and spidistino). Arch stat di arch 1934. Marselle, The author reports a case of aberrant adversal

cortical timue in the head of the spelldynus and revacuus the literature on the condition

His case was that of man thirty seven years of age who died of pulmonary inherences. The adrenal throse in the epidodymia was found I entopsy The nodule comisted of calls of the adresal cortex

surrounded by a fibrous capsule.

From his review of the literature the a thor roschoice that accessory advened tesses is more or less common It may be found in the vicinity of the advant gain friefly as the kidney or liver along the spermatic ven, in the richety of the general gases, and in the region of the griddings, and in the private gases, and in the region of the griddings, and in the region of the shedominal symptoms. thetic nerves Adrenal tissue around the abdominal sympathetics consists of medallary calls and has the

characteristics of chromaffin tissue, whereas aberrant adrenal tissue found elsewhere consists almost exclusively of cells of the adrenal cortex The reported cases of cortical and medullary tissue in the same

The frequency with which adrenal cortical tissue aberrant nodule are rare and doubtful is found in certain areas and organs, sometimes at a distance from the adrenal glands, is explained by the embryological vascular relationship of the adrenals and by dislocation of the adrenal tissue during early development before the two portions of the adrenal are fused into one gland On account of involution and obliteration of many of the embryological vessels supplying aberrant adrenal glands with resulting aurenan gianus with resulting atrophy of the adrenal tissue, accessory adrenal accoping of the attenda uspue, accopony attenda tissue is less common in adults than in infants a few

Aberrant adrenal tissue maintains its function This has been demonstrated clinically by cases in which the adrenal glands were completely destroyed months old without the appearance of Addison's syndrome or

The aberrant adrenal tissue may undergo neosymptoms of adrenal insufficiency plastic changes and develop into neoplasms such as hypernephromata and Gravitz tumors

The Origin of Cryptorchidism (Die Entstehung des Kryptorchismus) Moszkowicz, L

As early as 1927, at the convention of Alpine surgeons at Innsbruck, the author expressed the opinion that cryptorchidism is the result of delayed sex detnat cryptorchiaism is the result of delayed sex determination due to an "intersexuality" in the sense

in which that term is used by Goldschmidt In this article he presents further evidence in sup port of his theory In a deformed newborn infant there was found a peritoneal duplication uniting both undescended testicles which could be described only as a ligamentum latum and had undoubtedly prevented the descent of the testicles To solve the problem, the author examined a large number of embryos He found that in embryos measuring 30 mm from vertex to coccyx sex characteristics were still not evident macroscopically, but that in embryos 40 mm long sex differences were distinctly apparent In female embryos of the latter length the genital cord appears as a rather thick transverse ridge between the bladder and the rectum In male embryos of the same age this cord is very much thinner and in the center is notched and bifurcated

As 15 well known, there occurs in the female em bryo an extensive fusion of the muellerian ducts. As a result, the wolffian ducts which are enveloped by the same mesenchyme are drawn with them toward the midline By this traction the cramal portion of the gubernacula and the caudal portion of the pronethe gubernacula and the caudal portion of the prone-phron and the generative glands are also drawn closer to the center of the body. The generative glands are thereby moved from their vertical to a more horizontal position and are gradually with-

drawn from the influence of the gubernacula latter develop in their cranial portion into the ovarian ligaments and in their caudal portion into the round ligaments The mesenchyme is changed into the

In the male embryo large portions of the muellerian and wolffian ducts remain ununited, this fact ligamentum latum accounting for the previously mentioned notching and bifurcation of the genital ridge Accordingly, the gubernaculum is not drawn toward the middle and maintains its full efficiency with respect to the generative glands It grows to a thick cord which generative gianus at grows to a time cour which enlarges the inguinal canal, thus facilitating the descent of the related tested. The latter and the descent of the related tested. emarges the inguinal canal, unus lacintating the descent of the related testicle. The latter is merely hanging on a pedicle which is formed from parts of the muellerian and wolffian ducts and gradually becomes more and more attenuated If a disturbance arises during this stage of growth—for example, if, in a maturing male embryo, female developmental characteristics at first predominate and therefore a progressive coalescence of the muellerian and wolffian ducts occurs—it will lead to the formation of a ligamentum latum binding both testucles and preventing

Asymmetry of this process would easily account for the unlateral inguinal testicle and for dystopia their descent

If these theories are correct, still other deformities representing more marked disturbances of this type testis transversa may occasionally be found in cryptorchids In the female, many deformities may be accounted

for similarly by the predominance, for some length of time, of male developmental characteristics in the

As these abnormalities may appear in several members of a family and are therefore inheritable, developing female embryo developmental anomalies may sometimes be found in female relatives of males with cryptorchidism

Since the author has searched for such deformities in operations for retention of testicles in the inguinal canal he has observed in the case of a fifteen-) ear-old boy with bilateral cryptorchidism a shining, tendonlike thickening in the hermal sac which started from the medial margin of the testicle, entered the abdominal cavity in the form of a shining, tendon like cord, and was apparently a rudimentary ligamentum latum A ligament unting both testicles and corresponding to the ligamentum latum was found also in two autopsies

(W MANDEL) MATHIAS J SEIFERT, M D

MacKenzie, D. W., and Ratner, M. Malignant
Growths in the Undescended Testis. A Review of the Literature and a Report of Two Cases

The authors report two cases of malignant growths in undescended testicles They state that the occurrence of such changes in either the abdominal or the inguinal undescended testicle is rare, and that the arguments advanced to prove that undescended testicles are predisposed to malignant changes are based on statistics which often are contradictory

They have found that malignancy develops is an abdominal testicie in only 1 of 60,000 cases of abdominal cryptorchidism. They therefore believe that orchidectomy should never be performed merely

to prevent malignant degeneration

The pathological character of growths in unde scended testicies is the same as that of growths in normally placed testicies. The symptoms depend on the location of the testicle. If the testicle is in the groin the patient complains of a mass and feeling of heaviness in the groin, but if the testicle is in the abdomen there are no symptoms until late, when an abdominal mass becomes apparent. Often the symptoms due to metastases are the first t appear

In cases of malignant growths in undescended testicles MacKenzie and Ratser precede orchider tomy by a course of deep X ray therapy and follow it by several courses of deep X-ray therapy given over long period of time

PRANK M. COCKERS M. D.

Donari, D. Fibrosarcoma of the Tunica Varinalis of the Testicie, a Clinical and Pathological Study (Fibro-sercoma della vagnata del trattonio. Studio chalco ed anatomopetologico). Arch stal ell and out 47

Connective tissue tumors originating from the fibrous tunies which surround the testicies or from the adipose and fibrous tusses which separate and surround the various elements of the testicles or cord are very rare. In second they run benish course An exact distinction between tumors of the cord and tumors of the sheaths of the testicle is often very difficult to draw because cord tumors often begin in the cord below the inguinal canal, frequently near the true shouth of the testes, and tumors of the tunics vaginalis may grow between the visceral and parietal leaflets around the posterior fascia of the epididynals or cord. However tuesons of the cord are much more frequent than tumors of the sheaths of the testicle

In discussions of the histology of tumors of the specimetic cord and tunica vaginalis, there have been described several types of tumors of connective traone origin, fibromata, bipomata, myxomata, mixed tumors, tumors undergoing malignant degeneration, fibrosa commute, and secondate. Even the malignant tursors have a slow course and their fustological examination seldom shows very definite active

atypical proliferation of the cells

Before reporting the findings of his study of tumors of the sheaths of the testicle Donati reviews briefly the normal anatomy of these sheaths. He states that the tumes varinalis propris, the tunica fibrous, and the interposed cellular these may all he the sites of necolasms. Tumors involving these sheaths always have an handlons onset and grow slowly Sometimes they follow tranms. They may reach considerable size without causing symptoms and then cause only mechanical symptoms. They and then cause only mechanical symptoms. They are usually unlisteral. They do not metastanto and if removed, do not recur

Donati reports a case which he cousiders noteworthy because of the rarity of the type of tamor found, the presence of multiple tersor mesers, and the sites of the neoplesms. There were several beopleans in the tunics vaginalls propria, involving especially the parietal leaf serrounding the eracidymis and cord, and also a number of musics between the tunios propria and the tunios fibross External t the tunics vaguralle commune there were masses of fat encapsulated by a fibrous sheath The patient was man seventy years of age ho first noticed a slowly growing symptomics hime in the left testicie two years before he entered the hospital. At the time he entered the hospital the neonless had reached such size that its weight exused discomfort Exploratory puncture of cyalle area of the tumor evacuated about to cen of fluid which contained many leucocytes, a number of crystals, numerous large round cells with clear protoplasm and sthort vacuoles, and some calls with irregular outlines in which granular fatty dogeneration was seen. At operation the tursor the left terticle, all of the acrotal suc, and a considerable portion of the cord were removed The tumor measured re cm in length and 8 cm in thickness. and weighed 700 gm. On microscopic examination it was found to be fibroms showing areas of fibre sercome with polymorphous cells

LOUGH T LEGET M.D.

#### MISCELLARROUS

Wolconsinger and Colson: The Search for Kech's Bacilli in the Urise (De la recherche des baciles the Kack dans les urmen) I d'ural, mil et chr 1434, 37 459

The authors review the lour principal methods for finding tubercle bacilli in the urine (1) direct animination after contribugalization and staining ( ) tooculation of gumes pigs, (3) examination after en-richment, and (4) culture or microculture

The reported incidence of positive results from direct examination in proved cases varies from 14 to

57 OS DET CENT

According to Marion, guines-pig inoculation yields contires results in 90 per cent of cases. However Calmett has called ttention to instances of spontsneous tuberculous taloction of guines page and rabbits, thereby demonstrating that this sectiod is not free from the possibility of error. Another desidentage of the procedure is the time it requires. The et our bothers out benchmada property

The authors object to macroculture because it is difficult and requires from nine to twenty-serva-

They recommend most highly the methods of coacontration, particularly the Ellermann-Erlanders method of sutodigestion which they supplement by direct enimination of the sediment. In fourteen years they have obtained positive results by the combination of these two methods in 95 45 per cent of cases. They believe that these methods are suffciently accurate to rule out or prove the presence of unilateral or bilateral renal tuberculosis Their tech-

nique is as follows

All utensils are carefully cleansed prior to use. The urine is centrifugalized at 4,500 revolutions for fifteen minutes. The sediment is stained with hot Ziehl-Nielsen stain for five minutes and then destained with nitric acid and alcohol to which a little picric acid has been added and counter-stained with methylene blue The picric acid is used to decolor the smegma bacillus. A careful systematic study of the preparation is next made. If the microscopic examination is negative, the Ellermann-Erlandsen procedure of autodigestion is carried out in the following manner

The sediment obtained by the previous centrifugalization is diluted with a 1 400 solution of sodium carbonate and incubated at 37 degrees C for twentyfour hours. It is then centrifugalized for fifteen minutes at 4,500 revolutions The sediment is again diluted with the solution of sodium carbonate and placed in a boiling water bath for five minutes. After cooling, it is again centrifugalized for fifteen minutes at 4,500 revolutions and the sediment stained as described for the direct examination

The authors conclude that the method is rapid and certain if the described technique is followed and if a careful study of the stained smears is made by a competent bacteriologist MAX M ZINNINGER, M D

Le-Roy, C M Colon Bacillus Hæmaturia (Le ematune da colibacillo) Arch stal di urol , 1034, 11 311

The author reports twenty-five cases of hæmaturia due to lesions in the urinary tract produced by the

colon bacillus. In such cases the colon bacillus reaches the urinary tract from the intestine by way of the blood stream It may enter the blood stream through extremely minute intestinal lesions Hæmaturies due to the colon bacillus have no particular characteristics which permit their differentiation from hæmaturias due to other causes. In the majority of cases of colon-bacillus hæmaturia the lesion responsible for the bleeding is in the Lidney, but not infrequently the bladder is involved either alone or with a Lidney

Hæmaturia due to the colon bacillus may result from the toxins alone, under which circumstances the organisms are infrequent in the urine, or may be associated with a pure colon-bacillus bacilluma or a more or less intense pyuna The fact that colon bacilii often pass through the unnary tract without producing a pathological lesion has not been explained It is possible that when this occurs the

virulence of the organisms is low

The pathological changes produced by the colon bacillus in the urinary tract vary from a simple renal congestion with zones of interstitual nephritis to the development of frank suppuration with the formation of abscesses in the kidney or bladder. The so called purpura of the bladder mucosa often seen on cystoscopic examination may represent such an inflammatory hamorrhagic lesion

The diagnosis of colon bacillus hæmaturia may be difficult Bacteriological examination of specimens of ureteral urine is most important. In general the prognosis is favorable. The treatment should be directed principally to the intestinal tract, the source of the infection A Louis Rost, M D

### SURGERY OF THE BONES JOINTS MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TEMPORS, ETC.

McGew W H., and Harbin, M. The Rôle of Bone Marrow and Endowteum in Bone Responsation. An Experimental Study of Bone Marrow and Endosteal Transplants. J. Bone & Joint Sury 244. 6 816.

Osteogenic properties have been ascribed to all portions of bone, but especially cortical bone with or without perioateum has been advocated for bone transplants. Apparently no one has previously sug grated that marrow these alone might be used as a free graft to stimulate or hasten cateogenesis. The authors resected portions of the fibral lith periostown from the less of several does and transplanted curetted fragments of autogenous tibial bone marrow int the defects New bone began to form within from six to fourteen days. At sixty days, a medullary canal and cortical condensation with ferior to the shalts were present in the rountgenogram. In control fibule in which similar resections were done without the use of transplants no bone regeneration occurred Capatrica C Gert M D

Bru E. A., and Hench P S. T berculous Rheu mathem. A Résumé. J Base & Jani Surg ats. 6 Sus

The condition discussed by the authors is a form of polyaribitis musicing is some cases acute rheraits form and in other cases chouse atraphic ribritis, but bearing some suggestion that for cuts and ye in the removals. Familia theoremises associated to the control of the cont

Struble virus, an themated form of tubered brailly, or an sherpic rescion. Therefore run tuber cles are not an expected finding and, when present, are attributed to superimposed duberation arinitis rather than to ruberations rheumations. Occasionate the structure of the control of the structure of the control of the control of the control of the control of the presence of giant cells and emobabilistic estimates the present of studies of the grownal members in the control of the property of studies of the grownal members of the studies of

tuberculosis or an allergic manifestation of the hirst ilt typical tuberculous arthritis derebog is a justi which was previously the site of stropkic polysic thrills the characterizing pathological change now the days it runniformation within the joint of the virus forms of birecting agent into virulent tubershault. The virus form is thought on be reconsistent bacult. The virus form is thought on be reconsistent suches play, in which incompliation of field from patient with a trophic polyarathritis may produce only nategorized or reponal typinh todes. Scheegont injection of the macranied lymphoid these in a second or a thrid guines pig may lead to the predetion of typical tuberculous sod to the demonstration of the presence of Zeoth health is the vicens of its

A large number of competent Investigation do sol recognise the syndrome of tuberculous freumation, arguing that there is no adequate chileal method of identifying it, no consistent restitutoring tuberculous, and mental, or laboratory evidence of the conductor, and so consistent demonstration of its appropriately characteristic microscopic pathological change.

A statistical study of a agrics of 50 cases of scats theumatic fever and 250 cases of chronic atrophic polyarthritis revealed so significantly higher inci-dence of familial tuberculous or associated visceral tuberculous than that found in group of \$50 control cases. Of series of 75 cases in hich disgraph of chronic trophic polyarthritis was made and the pathological characteristics of a scagle joint were determined by microscopic examination of tiests or inoculation of grines page, definite tuberculosis was found in 8 In the remainder there was no densite evidence of an intermediary stage between simple in flammation and tuberculous. In each of the I cases taberculous involvement of the loint was suspected prior to examination of tissues or inoculation of guines pigs, but its association with multiple arthrithe was confusing. Further investigation of cases of acute rheumatic fever and chronic trophic pol) arthritis with regard to tuberculous as a cause will be required to determine the acceptance or re jection of the syndrome of tuberculous risesmatism The uthors conclude that, as yet, there is no incontrovertible proof of such an entity

Ferguson, A. B. and Roworth, M. B. Com Fans and Related Conditions of the Rip. 1 Classification and Correlation of These Conditions. It. A Study of Seventy-Five Carse of Com Plans. J. See S. Jest Sep. 934, 6 751 Pb;

I the first part of this article the a thors discuss
the classification and engrelation of coas plaza, slip
plug of the pper femoral applysis, estrochoudrus
dissection, certain types of chronic degenerative

arthritis, and a condition not previously identified as a clinical entity, to which the name "coxa magna" is given. All of these conditions result from a circulatory disturbance in or adjacent to the head of the femur, which is referred to as "ischæmia"

In the authors' cases of cova plana and related conditions is chemia was found to be due to the following factors (1) inflammation in the hip joint, (2) inflammation or tumor adjacent to the joint, usually in the neck of the femur, (3) fracture or epiphyseal separation in the neck of the femur, (4) trauma to the head of the femur, or (5) tension of the soft tissues about the neck of the femur

The type of condition caused by ischæmia at the head of the femur depends upon the vulnerability of the parts of the hip. In the first decade of life the substance of the head of the femur is more susceptible to the influence of a circulatory disturbance than the growth disk, whereas in adolescence, the growth disk is more likely to be affected by such a disturbance. Vulnerability of a given part of the hip occurs two or three years earlier in girls than in boys

Ischæmia due to inflammation in the hip joint may cause coxa plana, slipping of the epiphysis, coxa magna, or degenerative arthritis Coxa plana due to such ischæmia is the most common type. The onset of symptoms occurs between the third and twelfth

years of age

Ischæmia due to inflammation or a tumor adjacent to the joint may cause coxa plana, slipping of the epiphysis, coxa magna, or chronic arthritis. Coxa plana from such ischæmia occurs usually between the fifth and tenth years of age, whereas slipping of the epiphysis occurs between the tenth and sixteenth years of age.

Ischæmia due to fracture or epiphyseal separation at the neck of the femur may cause cora plana and

possibly coxa magna

Ischæmia due to trauma to the head of the femur may cause coxa plana or osteochondritis dissecans

Ischæmia due to tension of the soft tissues about the neck of the femur may cause coxa plana and may be a contributing factor in ischæmia due to fracture or epiphyseal separation at the neck of the femur or an additional factor, favored by the method of treatment or immobilization, in conditions arising from ischæmia of other types. It occurs usually between the first and sixth years of age and most often in cases of congenital dislocation of the hip in which open or closed reduction has been attempted or obtained

Coxa plana occurring between the ages of three and twelve years is variously described in the literature as "coxa plana," "Legg's disease," "Perthes' disease," "Calvê's disease," "osteochondritis deformans juvenilis," "pseudocoxalgia," and "aseptic necrosis of the upper femoral epiphysis". It is characterized roentgenographically by flattening of the crest of the upper femoral epiphysis with widening of the joint space and changes in the density and evenness of ossification of the epiphysis and the proximal end of the neck of the femur

In the seventy-five cases of coxa plana reviewed by the authors the condition followed subacute arthritis Sixty-four (85 per cent) of the patients were males Both hips were involved in eight cases, the left hip alone was affected in thirty-six, and the right hip alone was affected in thirty-one

In twenty-six (46 per cent) of fifty-six patients with a history of tonsillar infection, disease of the tonsils was found at the time of, or shortly before, the onset of the coxa plana. In four patients other infections were discovered. Thirty-three per cent had had an infection several months before the onset of the coxa plana. These facts suggest that infection may be a causative factor.

The age at the onset of the symptoms in the hip ranged from three to twelve years. The average age was seven years. The onset was between the ages of six and ten years in 61 per cent and between the ages of three and six years in 26 per cent. Therefore the condition began between the ages of three and ten years in 87 per cent. Of the cases seen before the residual stage, the onset occurred after the age of ten years in only three.

The predominating initial symptoms recalled by the patients were limping and pain, each of which occurred in more than half of the cases and both of which were present in nearly half Limitation of motion was noticed by one-fourth of the patients Disability of consequence was uncommon

The course of coxa plana may be divided into three stages—the active, the reparative, and the residual Each stage generally begins and ends later in the

bone than in the soft tissues

The active stage is manifested clinically by softtissue inflammation with pain and limitation of motion and roentgenographically demonstrable softtissue swelling. These manifestations are often observed before changes in the bone are demonstrable roentgenographically or pathologically.

The reparative stage is characterized clinically by soft-tissue healing and scarring associated with a decrease in the pain and spasm and an increase in the range of motion. Its termination is marked by absence of pain and spasm Ordinarily it is completed clinically much earlier than roentgenographically

The residual stage is characterized clinically by the absence of spasm. It precedes by months or years the roentgenographic and pathological residual stages which are characterized by the completion of repair in the affected bone. Shortening and atrophy usually persist. In many cases the patients are able to take part in strenuous exercise.

In the cases reviewed twenty-one hips were exposed at operation Six were in the active stage of the condition, two in the early stage of repair, and

the others in the late stage of repair

In the active stage the synovial membrane was always thickened, soft, fragile, very vascular, and often irregular with villus formation. The periosteum was usually thickened and ædematous. The capsule was usually thickened, slightly ædematous, and more vascular than normal. The contour and ap-

pearance of the visible portion of the cartilage of the femoral head were aurmal. The symovial fluid was not abnormal. Microscopic cumination showed that the symovial membrane was usually ordenations, contained clusters of lymphocy lets and as often villom. In most cases the capsule and periosteum were chronically inflamed.

In the hips exposed to the reparative stage the sportal membrane was amonth, justicate, tough, thin, is ony-colored, and avancular. The periodicam and expande or scarned and localisate. The cardiage of the bead of the fermi as flattened in only four case, but in several it had prodicested at the major with the development of pannon. The cardiage with the development of pannon. The cardiage was otherwise normal in appearance as its arelation to the several in the periodic stage of the several that produce the cardiage cannoniation the soft instance were found to be transitively scarred and to contain thick walled vessels this must limitable. In several instances there was evidence of degeneration in the cartings from the margin of the bend

Caltures taken from four hips resulted in no growth The Mantoux or won Furnest test was done to twenty five cases. The results were positive in six, doubtful in two and negative in seventeen.

Cora plana is characterised reemigenographically by the development of areas of increased density within the femoral head followed by irregular ossifcation and selescount repair in the previously dense areas and accompanied by a decrease in the vertical diameter of the affacted areas, overdevelopment of the cartillage, and browdening of the head on deck

In the case of a child between the agen of three and teches years sho hump and complians of pain in the hip, thigh, or knee the hip should be carefully cannied for limitation of motion, particularly limitation of internal rotations and observation, and for the particular that the state of the careful particular that the careful particular that the careful particular that the high are positive, most theorem problem on all the of the which the diagnosm of ever plans can almost also jube catalolised, is indicated.

The general treatment of core plans should include the elimination of lost of infection and treatment of active infections that may arise

In the early or active stage the primary executial in the treatment is rest and relief from seight bear ing As rule rest is best obtained by keeping the child is bed athout traction or brace However in the presence of scate pars and spasm, simple ad healire or anklet traction may be used for short tune for their rebef. When necessary, it may be employed also for restraint. As rule, however traction should be orded if possible. The authors advise against the use of cests, and particularly against the use of traction braces, because while they provide rest, they favor subsequent limitation of motion. Rest should be maintained as long as definite pain on motion and spassa persust and until roentgenographic examination indicates that repair has progressed sufficiently for the counted femoral head to support the articular cartilage on weight bearing Stretching and foreshle manspulation should

not be done in either the active or the repursible

The authors describe the technique of the studies operation. In fifteen hips in which this rule are repair in the bone began immediately no new areas on accessed deemity developed, the reparrier stage was greatly shortened, and the clusical condition was improved. The hip result process perfectly areas thinkestly and from promopaphically are result like the companion of the process of the process of the companion of the compani

The diffling operation is as yet experimental and its value has not been fully determined. It is trichalculty difficult and associated with the possibility of servous damage to the hip. However if it is properly performed a size the inflammation in the hip is set too active it will hasten repair and prevent further deformity of the issued of the feature

In the reparative stage, no treatment is indicated Artivities which would came never wreach to the hip-work as jumping from a height, stating, and playing football—about the prohibited. If there is much imitation of snotion, rest in bed for two or three months should be tried.

In the residual stage, treatment should be directed only at the result of the disease. It may consist a subtrochamient ostootomy reconstruction, arthroplasty or energies. Notice C. Buttoor, M.D.

### SURGERT OF THE BOXES, JOINTS, MUSCLES, TEXDONS, ETC.

Bonnas, E. J.: A New Attempt at Treatment of Chronic Octoorsy alitie. J. Bear & June Surg. 1934, 16 Sp5

Roman states that an area of aspeke lose secretally appropriate in the body may be surrestally treated by connecting the necrotic segment with an adjusted by connecting the necrotic segment with an adjusted living segment of bone by offin channels. Concert solar have been obtained by this treatment descens, Osgood-Schiatter disease, intercapaster returns of the neck of the fersors and slopping and algored upper femoral epithytees. In all of these conflictoes aspekt boson servenis by the scale feature.

The observations of Anhausen, Hemster, Sastos, Preund, and Gordes have demonstrated desirably that the chief latter in the spontaseous hesitang reasons of aspect hose accordes brought short by arcanes in substitution of firing boos for the accrots boso which is effected by the sleep penetration of tasses elements and expellations of the ast penetration and expellations of the astronomerous transportation of the state of the same transport to the same transpor

In comparing the characteristics of another bost necrous and necross of bose following septic proccases such as suppursture categorycline, Bossas found that, in the last analyse, there is no difference between them. Because of this faiding and because the natural leading process us both sneptic and septic necrosis appears to be analogous, he concluded that septic necrosis might respond favorably to the treatment found effective in aseptic necrosis. He therefore attempted to induce substitution and revitalization of necrotic areas of bone in chronic osteomyelitis by connecting the involved areas with living bone segments by saw cuts and drill channels. He reports his first two cases in which this procedure was carried out. When the patients were re-examined one and three quarters years and one year after the operation, respectively, the result was found to be successful.

NORMAN C. BULLOCK, M. D.

Delchef, J, and Roudil, G The Treatment of Spastic Paralyses (Le traitement des paralysies spasmodiques) Rev d'orthop, 1934, 41 434

The authors review at length the various methods of treatment used for spastic paralyses, surgical and non-surgical. They note that the most common cause of spastic paralysis is intra-uterine infection, chiefly syphilitic, and obstetrical trauma. Children with spastic paralysis tend to show spontaneous improvement. This should be aided by re-education by exercise, massage, and physical therapy. These measures are the indispensable basis of any form of treatment. Cases of spastic paralysis should be treated by those especially trained for the work.

In the milder cases treated from the beginning, reeducation and physical therapeutic measures, combined with anti-syphilitic treatment and sedatives as indicated, are sufficient. In some cases with marked motor incoordination the use of suitable orthopedic apparatus facilitates re-education. In cases of longer duration with established deformity the use of orthopedic apparatus should be supplemented by such operative measures as lengthening of muscles, tendon and nerve resection, or tendon transplantation, especially on the upper extremities, and surgical correction of bony deformities In severe cases in which spastic phenomena are marked and those complicated by choreo athetosis or spasmodic torticollis an operation such as nerve-root resection or ramisection is indicated. In the treatment of any case the measures must be carefully chosen and wisely combined. Both pessimism and too great optimism as to the final outcome must be avoided. ALICE M MEYERS

Bosworth, D M Autogenous Bone Pegging for Epiphysitis of the Tibial Tubercle J Bone & Joint Surg, 1934, 16 829

The author reports four cases in which autogenous bone pegging of the tibial tubercle was done for epiphysitis which did not respond to conservative treatment. In this procedure a skin incision is carned downward over the lower third of the ligamentum patellæ and tibial tubercle and then extended medially downward. The periosteum is split and laid back. Two match stick bone pegs 4 cm. long are cut with an electric saw. The central cut divides the two pegs and slints obliquely so that each peg is larger at its base than at its tip. Two holes are drilled—one, close to, but not touching the

proximal tibial epiphyseal plate and slanting slightly upward and outward, and the other distal to the plate and slanting slightly upward and inward. The pegs are then driven in so that they set snugly and the projecting ends are cut off. After the operation the leg is immobilized in a long plaster boot for two and a half weeks. At the end of that time walking is permitted. The author has found that in cases of epiphysitis of long standing such treatment results in healing and ossification of the tubercle.

ROBERT C LONERGAN, M D

Adamesteanu, C The Static Conditions of the Foot After Astragalectomy (Les conditions statiques du pied après l'astragalectomie) Rev d'orthop, 1934, 41 485

Astragalectomy was first practiced by Fabricius de Hilden in the sixteenth century. The functional results of the operation are in general not entirely satisfactory. There are three points at which the tibia may be mortized into the tarsus to form a new tibiotarsal joint behind, above, and in front of the sustentaculum tali.

In a study of the statics of the foot according to the rules established by Destot, the author found that, according to those rules, the retrosustentacular operation is followed by talipes calcaneus, the suprasustentacular operation, by slight talipes calcaneovalgus, the presustentacular operation, by no disturbance of transverse equilibrium but by a slight tendency toward equinus Clinically, however, there are factors that alter these rules which were established by studies on the cadaver. In a study of chinical cases the author found that the retrosustentacular operation caused talipes cavus and the suprasustentacular operation slight talipes cavus and varus, whereas after the presustentacular operation the position and function of the foot were practically normal.

To obtain the best results from the presustent acular operation some modifications should be made in the classical procedure. Section of all of the ligaments inserted at the tips of both malleoli is absolutely necessary, and sometimes also section of the posterior part of the capsule. The inner and lower border of the joint surface of the scaphoid should be removed with bone forceps to permit firmer fixation of the bone in the mortise, and the peroneus tendons should be replaced in front of the external malleolus

Audrey Goss Morgan, M D

## FRACTURES AND DISLOCATIONS

Bancroft, F W The General Question of the Emergency Treatment of Fractures Ann Surg., 1934, 100 843

The author presents a brief résumé of the work done by the Committee on Fractures of the American College of Surgeons This Committee functions through three main agencies the annual meeting of the American College of Surgeons, where a fracture symposium is held, the annual meeting of the Gen-

eral Cammittee on Fracture, at which the reports of sub-committee are presented and reporal groups. B) these means adequate furt-sld methods for the handling of fractures are being taught not only to doctors and method teachers, but sho to boy account, understaters, and poiles and fire departments are also being the property of the

Santi, E.: Fractures of the Upper Extremity and the Shaft of the Humerus in Childhood (Le frature dell'extreme seperiors delle dafa off-cours rell infantis) Cha size 924, ro 448

The author presents a detailed analysis of fractures of the upper extremity and the diaphysis of inserting of the upper extremity and the diaphysis of the increas in childhood based on statistics from the more of the present of the present of the present of the present of the fractures see in a tap period from 900 to 933, 465 were inscrives of the humanus. Thirty-right of the obsphysis, and 491 the lower extressity. South discusses the mechanics, pathological naturality of the diaphysis, and 491 the lower extressity. South discusses the mechanics, pathological naturators y emptons, and differential diagnosis of fractures of the preventily of the humanus and the preventions. Institute of the diaphysis, and obsert read fractures in somewhat less detail.

BARRADA B STREET, M D

Soto-Hall, R., and Haldeman, K. O.: The Treat ment of Fractures of the Carpel Scaphold. J Bone & Joint Surg. 924. S. Sci.

Inducted fractures of the carpal souphed as at three types. The most centure of has entirely hear artholiar fracture occurring through the models of the body or neck. The next most common is an error artholiar available fracture associated with extent by least south of the control of the control of the control southern available fracture associated with severe commonation is a fracture associated with severe commonation of the control of the contro

mination and deformity

Recent fractures of the carpal scaphoid should be treated by firstion with the wrist is extension of from 30 to 40 degrees and complete radial Series and with includen of the thumb in the position of curasion and abduction. The immobilization should be maintained for a minimum of from seven to whe weeks, but with liberation of the thumb at the end of five weeks. For cases of long-continued nos union the uthors advocate the dulling of multiple boles through both fragments. The postoperative treat ment should be the same as for Iresh fractures. Of seven cases treated in this manner body unless re suited in five. For fractures with marked commisstion and deformity the a thora advan complete end-sion of both Iragments. They believe that after testi removal it is essential to immobilise the wrist in conplet plans flexion for I least five or six weeks to allow the cavity to become filled with strong cleatelcial tieses and to permit the ligamentous and some cular atractures to obtain proper attachment.

BARBARA B STOCKON, M D.

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS mm of copper are used for the nerve trunks The

Dixon, O J Experimental Studies in Vascular Re-BLOOD VESSELS

pair J Am M Ass, 1934, 103 1129 The author concludes from experimental observations that in injuries of the sigmoid sinus the intravenous use of a strip of viable sternocleidomastoid muscle is the best means available for the control of hæmorrhage and may be expected to be followed by recanalization with complete restoration of the func-

tion of the sigmoid sinus as a blood carrier J THORNWELL WITHERSPOON, M D

Gilbert, R, and Babaiantz, L Roentgen Therapy of Vasomotor Disturbances of the Extremities (La roentgenthérapie des troubles vaso-moteurs des extremités) Res med de la Suisse Rom, 1934, 54

For the treatment of vasomotor disturbances of the extremities the authors recommend roentgen irradiation of the sympathetic nerves in addition to other forms of therapy They review reports of the results of roentgen irradiation of the sympathetic and parasympathetic nerves in clinical practice and This treatment has been used for neuralgia, printis, and dermatitis. In experimental investigations experimental studies it has been found that the excitability of the nerves and the tone and motility of the capillaries can be altered. In the authors, opinion the results are best explained by the assumption that the roentgen therapy is neither constantly vasoconstricting nor constantly vasodilating in its action, but may be either one or the other, depending on which effect is necessary for restoration of the proper balance of the disturbed vasomotor reflexes. The dosage required is small. The authors call the described irradiation "functional" or "indirect" irradiation to differentiate it from the direct irradiation used in the treatment of neoplasms which aims at the destruction of cells Two general methods are used (1) irradiation of the sympathetic trunks in the cervical or lower dorsolumbar region or of the peripheral branches in the axilla, groin, or popliteal space, and (2) irradiation of the suprarenal regions and the adjacent ganglia The authors present a table based on 5 reports covering a total of 155 cases of vascular disturbances of the extremities of many hinds (Buerger's disease, Raynaud's disease, gangrene of all types, erythromelalgia, acrocyanosis, and trophic disturb-The number of patients cured or benefited

The technique of the irradiation varies In genranged from 60 to 96 per cent eral, semi penetrating rays moderately filtered with from 2 to 5 mm of aluminum are used for the peripheral nerves and similar rays filtered with 05

total dose varies from 500 to 800 r spread over from two to three weeks and averaging 175 r per treatment per field Such a series of irradiations may be repeated after an interval of two of three weeks As a rule, irradiation of nerve trunks is done first and if amelioration of the symptoms is slow, peripheral irradiation is done For the upper extremities the irradiation is given over the cervical spine and the first and second dorsal vertebræ, generally through 2 lateral portals For the lower extremities it is given from the tenth dorsal to the first lumbar vertebra over an area 12 cm wide on each side of the midline

The authors state that they have tried the method in II cases (3 additional cases are added in a footnote) Six cases are not reported in detail for various reasons (failure of follow up, death, treatment given too recently, patient admitted to the hospital in extremis) The remaining 5 cases included 1 case each of obliterating artentis, circulatory disturbances with painful cramps and gangrene, senile gangrene of the heel, trophic ulcer of the foot, and diabetic gangrene All were treated by irradiation of the suprarenal region, and in all a cure or marked improvement resulted Photographs of 2 patients showing healing are presented. The article has an extensive bibliography MAX M ZINVINGER, M.D.

Carlson, H A Obstruction of the Superior Vena Cava An Experimental Study

In experiments on dogs the author obstructed the superior vena cava above, below, and including the azygos vein to determine the tolerance of the animals to such obstruction, to measure its effects on the venous and arternal pressure, and to note the collateral circulation

He found that the dogs tolerated obstruction above the azygos vein, but that, particularly when it was produced in one stage, they did not tolerate obstruction below the vein. Immediately after the obstruction of the superior vena cava, marked cyanosis of the upper part of the body resulted. This disappeared gradually in about twenty-four hours as the collateral circulation developed. Eventually the collateral circulation compensated for the obstruction and the animals appeared normal. The paths of collateral circulation are described in detail. When the obstruction was above the azygos, the azy gos and its branches formed the chief trunk for the return of blood to the heart from the upper part of the body and the lower abdominal collateral veins were not very important. When the obstruction included the very important. When the observation modules the azygos vein, the superficial and deep abdominal vessels and the vertebral plexus were of much greater importance. As the asygos as blocked the blood returned to the heart through the inferior vena cave. The renal and internal spermatic veins are more important in man than in animals

The venous pressure was increased as a result of the obstruction, but as the collateral circulation as established it returned t normal. Immediately fter the obstruction the arterial pressure dropped t

shock level. Carlson believes that these changes are probably of not much chinical algolfscance because in clinical cases the occlusion usually occurs slowly CLUSTON C. RIED M.D.

Herrmann, L. G., and Reid, M. R.: The Conserva tive Treatment of Arteriosclerotic Peripheral Vascular Diseases. I a. Sarg 034, 00 750

Herrmann and Reid analyze seventy fi e unac lected cases of arterioscleross obliterans in which they used Pavaes therapy (passive vascular exercises consisting of thy thrule alternation of negative and positiv pressures about the affected extremity or extremities). They found that four complete cycles (from atmospheric pressure to positive pressure to ncestive pressure and back again) of alternating pressure from negative pressure of about 50 mm to a positive pressure of from so to 4 mm of mer curr all bring about the greatest increase in the

rterial circulation with the least damage to the tiques of the extremity I one complete cycle of filteen seconds positive pressure is used for five accords and acquitive pressure for ten seconds. The frequency and length of the tre tments depend pon the argency of the condition, varying from three to seven bours a cel to from four t eight hours a day

Of the nutlents whose cases are reviewed, thirty three (44 per cent) reported that they had been completely repeated of their major symptoms, and thirty (40 per cent) reported that they had been greatly benefited. In the cases of four patients who had definite gangrene of the foot when they were admit ted to the boststal the gangrene was limited by the treatment and sufficient collateral arterial circula tion developed to permit amoutation through the foot with prempt postoperative bealing of the would Eight (1 5) per cent) lost their extremities because an adequate collateral curculation could not be established by the I' vaca treatment

The benefits of the treatment ere least obvious in patients with extensive obliteration of the arten olar bed of the feet and most triking in those in which the pathological changes ere imuted per cirally to the major or secondary rienal pathwara. especially those with rapid occious of the riery by embolism, traums, surgery or thrombous

EURANETS M CE 1101

Barnard, W. G., ad Berbury W. M. Gangrene of the Fingers and Toes in a Case of Pairarteritis Nedoma J Falk & Ractural 934. 39 15

The mai feature of the case reported, that of a girl eight years old, as the condition i the ex-

tremities, hich presented a patchy purplish decoloration. The discoloration was most marked in the fingers and toes, where it as very dark but occurred also in the elbows, knees forcures, ad legs. Examination revealed also a generalized tea derness in the muscles and a slight effusion is both three joints The radial and dorsals pede arterns, ers not palpable. During the course of the diese the discoloration of the extremities extended until all of the fingers and toes ere quite black and persented a shrivelled prearance segrentice of dry gangrene. The backs of the kands and feet became purplish and slightly ordenatous. Before the child died, three months after her admirsion to the hospital, the color appeared t hade slightly Death occurred in convenions. The blood examinations showed as increase in the leuroey tes from 50,000 to \$6,000 and from 18 to \$0 per cent of polymerale nucleara

Postmorters examination disclosed arterial charges which canged from necrosis of patches of hyper trophied intime to necrosis of the greater part of the all of an artery and from elight hafamasator, builtration t an influentatory lesion of great several) The radial artery was found filled by a thrombas Its latima was greatly sucilen partly by ordens sad partir by multiplication of its cells, and its media was ordensations and partly accretic. The pulmonary rieries abo ed comperati ch little pathological change. The authors regard this fact as of seguin cance because the arteries most commonly affected in polyarthritis are the muscule arteries They suggest that it may give some close to the cause of the disease. The characteristics of the lesions led them t conclude that the condition may be a virus or an allergic rather than a bacterial disease.

Мим јо чен, MD

Sance B. M Thrombooks of the Vetes of the Lower Extremity and Palmonary Probolism M a Complication of Trauma. Am J Sury 144 **25** 0

Vance discusses the incidence of thrombook of the veins of the lower extremities and pulmonary embeharm in cases of traums collected from the Office of the Chief Medical Examiner of New York City

The injectes were the common injuries matriced In large cities Seventy-two per cent were due to a tomobile accidents. The lesions varied in sevent) from severe fractures of the petrus or the shall of the femt t mere cont none and brasions of the et tremutical

The interval which elapsed bet een the orra rence of the traums and sudden death from pulmonary embolum varied from four to fifty four days The erage interval ranged from ten to t enty load days. This medicates that the influence of the traces. on the production of the thromboels and the embolism was not manife 1 every case

Of since 1 wo cases in which the trauma briefer the bones and soft parts of one of the lower extreties, thromboso was found in the erm of the corresponding lower extremity in thirty-two In fourteen, no thrombus could be found Of fourteen cases of injury in which some other part of the body besides the lower extremities was involved, thrombosis of the femoral vary was found in nine. suggest that a traumatic lesion near the femoral vein the femoral vein was found in nine suggest that a traumatic resion hear the remotal vent or its tributaries has an influence on the production of thrombosis in that vein However, a similar thrombosis occurred in the femoral veins in cases of injury not involving the lower extremities, in which the influence of the trauma must have been more remote Moreover, femoral vein thromboses and fatal pulmonary embolism occurred in non-traumatic cases of all kinds. Therefore the basic cause must be some factor other than physical injury

Microscopic investigation of the thrombosed veins of the lower extremity, both in the traumatic and the non-traumatic cases, disclosed that in almost all instances a phlebosclerosis, a subacute phlebitis, or a periphlehitis of greater or less degree was present peripineuros or greater or ress degree was present In many cases these lesions probably antedated the trauma In others, the effects of the trauma, when ther general or local, probably precipitated the inflammation and produced an aseptic thrombosis which eventually resulted in the fatal pulmonary

It is evident that thrombosis of the veins of the lower extremity followed by pulmonary embolism must be considered by the surgeon as a possible comembolismplication of fractures and other traumatic lesions, especially in individuals who have reached middle especially in individuals who have reached inhouse age. The development of the thrombosis is insidious The patient seems to be on the road to recovery when, without warning, the pulmonary embolism develops and death occurs suddenly in an attack of

Deaths from pulmonary embolism are responsible for many interesting medicolegal tangles, especially in accident cases acute asphyxia opinion with regard to the part played by the trauma in the development of the complication Obviously a bruse of the leg is a less serious injury than a fracture of the lower third of the shaft of the femur, but both types of injury may be followed by pulmonary embolism. In the author's opinion the trauma pre cinional the care author's opinion the trauma pre-cipitates the process, but the basic cause is a diseased

or injured vein in the lower extremity

BLOOD, TRANSFUSION Judin, S. S., and Skundina, G. The Problem of Cadaver-Blood Transfusion (Das Wolfer der Cadavar) Wien med Wehnschr, Leichenbluttransfusion)

The cases reviewed were treated at the Emergency The conditions consisted chiefly of injuries from street accidents, acute gastro intestinal hamorrhages, and abdominal pregnancies Institute at Moscow On account of the great number of blood transfusions which were necessary it was difficult, and sometimes impossible, to secure living donors for all cases. The

idea of using cadaver blood was based on the animal experiments carned out by Schamov in 1928 The Emergency Institute proceeded cautiously in this direction Experiments with regard to the viability of the blood were undertaken first. The transference of oxygen was studied according to the method of Barcroft It was found that, in animals, this was possible by means of cadaver blood as well as by means of living blood The authors report an experiment performed on a dog in which an amount of blood equal to 50 per cent of the body weight was withdrawn Despite injections of sodium chlonde solution the animal's condition became progressively worse After the transfusion of cadaver blood complete recovery resulted and there was an increase in the erythrocytes and hæmoglobin

Only the blood of persons who had succumbed to street accidents, angina pectoris, and other factors causing sudden death was used Blood from cadayers with crushed limbs, intestinal wounds, and severe cranial injuries, and from the bodies of persons who had been drowned was not used. Before any cadaver blood was transfused a complete autopsy was done to rule out the presence of chronic diseases such as tuberculosis, syphilis, and tumors The greatest length of time that was allowed to

elapse after death before the blood was withdrawn The method of blood withdrawal was important An incision was made in the internal Jugular vein and a glass cannula with rubber tubing was six hours Jugurar vein and a grass camina with the Trendelenwas inserted With the cadaver in the Trendelen-

Investigation showed that the blood came only burg position the blood flowed freely from the superior and inferior venæ cavæ average amount obtained was about 11/2 liters The blood was led into sterile flasks where it was mixed with sodium citrate It was then kept on ice in dark flasks Ice retards the proteindecomposition and the exclusion of light preserves the colloids Hæmolysis began only after thirty days On the average, the blood was used up to three weeks after it had been bottled, but even when it was older it

The blood was tested to make sure that it was caused no deleterious reactions free from bacteria A Wassermann test was made and the serum reactions and blood groups were de

termined

To date, the Emergency Institute has performed 350 blood transfusions with cadaver blood advantage of this method is that 1,000 ccm of blood or more can be given, which is impossible when a living donor is used The reactions were in no way different from those with living blood Reactions occurred in 21 per cent of the cases There were 5 severe complications (2 cases of hæmolysis, I of septic phlegmon at the site of venesection, I of anaphylactic shock from repeated transfusion, and

The method was used particularly in cases of severe gastro-intestinal hæmorrhage to prepare the 1 of air embolism) patient for operation or to render operation possible in doubtful cases without delay By means of it, po per cent of the patients were saved. Several cases are reported. The method was used also for shock. The mortality from shock is the Emergency Luttitude was high. By means of cadaver-blood transfusions up per cent of co patients were saved. However, it was necessary to me very large quantities of blood (from \_coo to \_t, you c \_cm) before said sittle the operation and constitutes during the operation.

the operation and sometimes during the operation. It was notable that in some of the patients with pastro-intestinal hemorrhaps and some of those with shock the hemoglobin content of the blood had

fallen to from 15 to 1 per cent.

Cudaver-blood transfordors were given also in 44

cases of exerinoms with the result that in some of them the patient was rendered operable

(Files) Parter Startes, M.D.

#### LYMPH GLANDS AND LYMPHATIC YESSELS

Tenefit, S. Experimental Studies of the Healing of Wounds, New Formation, and Autoplastic Transplants of Lymph Nedes (Retherches et primentales ser la sprizon des plains, sur la nétonation, et sur les grafes autoplastiques des graslious braphateques | Lyse chr. 944, 1 54

From experiments on guines pigs, the other draws the following conclusions

Wounds of lymph nodes heal by the formation of a connective these scar which never disappears and is never replaced by normal lymphatic issue

Where all of the lymph nodes have been entire brited new lymph nodes may sometimes appear after a certain length of time. These lymph nodes represent, in general, a bypertrophy of radmentary lymph nodes present in those reprose or, possibly is very exceptional cases, hypertrophy of adipose and lax connective bases.

3 Autoplastic transplants of complete lymph nodes with their capsules never "take. A toplastic transplants of lymph nodes without capsules survive for a certain length of time, but eventually disappear completely. Autor 8 Scientistics M.D.

Designations, A. U. The Ethology of Lymphoblestorns. J. Am. M. Ast. 934, 83 1032.

The exact character of the pathological conditions collectively designated by the term "rumpholisations at fill clodes the physican. Although these conditions have been the object of critaries with the essential and differential characteristics of Hodg kinks the case that differential characteristics of Hodg kinks the case and differential characteristics of Hodg kinks the case and differential characteristics will present the condition of the control of the condition of the condition

First of all it is emential to consider the immediate cause. On two previous occasions Designifies has suggested that the factor immediately responsible for imposoblastomators hyperplana of the imploded attractures is chronic infection. This infection may be tuberculous, progenic, or syphilitie. In fact, its type is of little consequence provided the interior comment is present for a smithently long time indifferent patients if the thirty of the princits observed in the interior of the princits of physical atlancation is correlably and presimently nopely atlancation in the control of the interior of will be obtained in the majority of case. I formation, it must be personed with neethed if the interioral longuity is to yield the desired information it, must be pursoned with method

Of particular significance in Designable observation that the chronic infection has invariably after a part of the body darined by the group of land nodes which first gave indications of lympholiatonstons hyperplans. The practically constant as sociation of infection and pointary lympholiaorations in infection and pointary lympholiacistly in the same region and on the same side of the body can hardly be regarded as colorabors. If this association were the result of chance, has antanomical relationship to sould not be so consistent.

A definite and unquestionable blictory of chronic infection in a region drained by the nodes first affected with lymphoblastoms cannot alway be obtained Fallure is especially proce to occur in the cases of farmers or laborers who are obliged to work hard and steadily and who pay little treation to what they regard as minor alments patients of limited intelligence and patients in whom the early manifestations of lymphoblastoms have been confined to the abdotner. Unless fairly pronounced, infection of abdominal structures, socia as cholecreditis, ureteritis, or preionephritis, may not attract the patient's attention. Chronic infection therefore appears to the author to be the humedrate cause not only of Hodgkin's ducesso and lymphosarcome but also of the various forms of leakernia. Hereever even if this etiological relationship is andersable, predisposing factor is required to provide a suitable background for the immediate cause. Such an additional and sesential element is probably to be found in hereditary predisposition or tendency of the lymphoid theme to react in certain way to

realized notices influences. Designation reports a few cases encountered within a finished period. In conclusion has says that if chronic networks in the immediate cruse of lympholastooms, as he assumes, it behovers the physician settledy to constitution of the second property of the p

wifered from lymphold disturbances

Brunschwig, A., and Kandel, E. A Cherulation of
the Bierdongleni Chunges and Clinical Sympthese in Irradiated Hodgkin Decess and
Lymphoblastoms Lymph Nodes. Estaling

194, 5 2 5
In brief presentation of their views of the stickey and gractic relationship of Hodgkia's dis-

## SURGICAL TECHNIQUE OPERATIVE SURGERY AND TECHNIQUE; POSTOPERATIVE TREATMENT

Bela, IL: Statistics on Thrombosis Covering a Pa-A. ILI OCALINIAGE OR I ENTORMORAS COPERINA & PA-riod of Twenty Years (20 John Threabsack Statistic) Arch Joseph (2014, 20 Gap (24, 20 Gap) The author review statistics on thrombouts cor

ering the twenty year period from eting the twenty year period from 9.3 to 935.
These statistics are expectally valuable because they Ance parenties are expectedly resource occurs only state based in Police mathematical system of conwere based to Polity mathematical system of con-plication. Of a total of 636 autopades, removes thrombour was found in 900 and polisocary con-cerning to the control from 10 10 to a the thrombosis was found in one and pulmonary en-bolism in days. In the period from 19 I to 19 9 the total number of thromboses decreased about 9 Per tous number or throusons accreases among persons and in the period from 919 f 925 ft lacrossed cause, and in the period from 110 t 100 t forward about period in 110 forming the decrease has a comply for the period forming the decrease has many forming or pulmonary on body were almost was not period for the control forming the control formi was noteworthy that in the females the maximum

was noteworthy that in the terms one maximum maximum incidence of thromboats, whereas in the makes the incidence of embolum ranched in maximum at the same time as the incidence of thromnum at the same time as the incidence or thrombothese. The average age of the application of thromboth and emboting considered installed thromboth and explanation of the application was a forty-average as a which and conceased transmission (opening) was constructed in a strength print The verget by at which an ex-tening years the verset as at which thrombods occurred was fifty eaven and dight tenths tarantona occurran sas mry seron and capat union tarantona occurran examples are at which embedson oc years, and the average age at which commands or curred, sixty and materially years. Surjetus and current, extry and aux-tention years. Shally two same two-tenths per cent of the thromboson occurred in two femoral value of the print verse to included the temoral voins. If the pervic voins to included with the latter this venous region was involved in with the latter this venous report was involved in about 50 per cent of the case Both sides of the body was involved with earl frequency All of the chamber and combate commands in the wells of the thrombs and embols originated in the veins of the information and control originates in the votes of the frester condition. In only i case did an on-

the first in circulation in only I care out as em-bodies organic in the primocary seriory and paids from the funded through patient formand a paid into the right careful. The optionary artery man, mandal for small from other than the street man and the small from other than the street into the right summer the right permanenty arrangement with the left has involved by emoon more often cann the seri-in cases of smaller embols the lower lobes of the in cases or someon someon the over some or the the street indicated in the contract of the co kobes innumination was notice to the case of the case CHTOMORPHS and CHARGE IN 3 Per cent or the cases.

This percentage was increased to 60 per cent by the beart and vessels, and to 60 per cent by the case of the beart and vessels, and to 60 per cent tomaco or the many and voters and to so yet con-by inferrious degeneration of tumors Circulatory disturbances authors inference cased thrombonic is only 7 ber cent of the cares

(Max Bonne) Paulo Salvino, 11 D Robertson, H. E. Polmonary Embolism Following Surgical Operation. Am J Surg PAM as 3 Robertson says that the menace of thrombous and supporting its cast, basical, and the desirence of its bas-vocation was a rime rise memory or protections with

vention abould be very live one II, as has been shitled infertion in the corner there is the book of success. This would be true the II have been successed in the control of the control detections were shown to be done to increased confiprocesses were soon as to be care to mannered surger lability of the blood as any aftempt to lower the coanaming or one money as any accumps to some cruse companion of the photod would be their to prove as desperous as the condition to be combatted. How cargarous as the condition to be changed one erec, if, as seems likely lasts in the remote changes is the underlying came there is every remain to a time meaning came uses a crey reason a stimply prophlactic procedure to mercar the activity of the blood flowing in the regions of stagethe state it is quite clear that the more aird the blood flow the less would be the tendency to aird

occor now the case would be the tracers; we are the growth of intervital through While in the article the wither does not across. White in this article the winor does not across:
Any particular measures to increase the idea flow in any participant measures to increase the parent have the verse of the points and lone; limbs, by states the veins of the pervis are some rance, or seem that manage ! Irriparati intervals, prairing and are the motion of the less frequent moving and terms tre measure or the seps, recipient moving and measurement of an increment in phistory rate, such as deep breathing, are legical spiritory rate, such as occup incurring, are super-procedures. Eyest more important is the local seed heart. Keeping the feet and kept surm and profess heat results to the perish might prove deciding fee anch as thyroid extract, mught be lands for as well as the supplementation to be lands for its extract. such as infrom entirel, major be indicated in an extended of the bott of bot on their streets on a formation of the formation connecting all or trace methods except measure an motion may be used. Of chief importance are recognized notion of the possibility or probability of the developneed of this lesion and efforts to and a practical method to prevent t

tracet, J. Acute Postoperative Dilatetics of the Stomach Complicated by Perforation (Debu-tion signs) and Perforation (Debu-tion of Perforation of Perforation (Debu-de pastoration). From such Per 104, 43, 17

The ather reports an annual case in which he towing removal of the storm and starces for inflantowing tunoral or are storing and analysis of market market distance the patient, forty-one year-old market distance of storing of the market distance of woman oryacyses uses with surrest containing the storach and slight ferry. The patient related gratter larger On the cighth and minth days the forty-one you old expressions of blood in the stood was followed by schute permeterate and promised hear I shreet active sematement and occurrent pain access for the bleeding per settled and death occurrent on the farteents day

A toppy revaled in the anterior wall of the greatly dilated stomach, a hole the size of which was affected to the undersecritics of the free when was amounted to the above surface of the said blocked with a blood clot. There was no pertoutis, and so thrombons of vessels as local entires of the hole fave the impression of diffuse pasFew postoperative perforations of the stomach have been reported. The author was able to find only two cases of associated postoperative dilatation and perforation He believes that, in the case he reports, vasodilatation and acute ulceration occurred ports, vasoumatation and acute unceration occurred as a result of prolonged dilatation, and that simple gastric lavage might have prevented the development of the fatal complication

# ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Kozdoba, A Experimental Results With Regard to the Treatment of Infected Wounds (Expenden telle Ergebnisse ueber die Behandlung infizierter

Wunden) Non chir Arch, 1934, 30 181

Kozdoba reports the findings of 169 experiments carried out on dogs, rabbits, and guinea pigs in which a study was made of the healing of wounds produced artificially, infected with various sporeforming and non spore forming bacteria by means of street dirt and osteomyelitic pus, and treated with vucin, rivanol, bichloride of mercury, tincture of rudin, fivanoi, bichioride di mercuri, fincture di nodine, brilliant green, pyoctanin, hypertonic sodium chlorde solution, magnesium sulphate solutions, and

The effect of the antiseptic agents was twofold, consisting of a direct action on the Pathogenic bacterial autogenous vaccines teria and stimulation of the defense reaction of the body as a whole Some of the antiseptic agents used brilliant green, pyoctanin, rivanol, and bichloride of mercury—not only produced an effect at the site of their application but also penetrated into the deeper tissues, inhibiting the spread of the infection

In wounds infected with double the lethal dose of certain organisms the most effective antiseptics were and promoting healing rivanol, pyoctanin, brilliant green, tincture of iodine, hypertonic sodium chloride and sodium acetate solutions, and bichloride of mercury In relation to chronic suppurating wounds the corresponding order was hypertonic sodium chloride solution, brilliant green, pyoctanin, tincture of iodine, and rivanol The best results were obtained with combined superficial and deep antisepsis and proper mechanical

Of the 169 animals, 63 (36 per cent) died The author states that the prolonged use of anti cleansing of the sloughs septics hinders the formation of granulation tissue After a number of days weak concentrations of the antiseptic should be substituted for the initial con centration and these should be followed by the use of hypertonic solutions, especially of sodium acetate Weak solutions of brilliant green and rivanol do not interfere with the formation of granulation tissue Strong solutions of antiseptics cause necrosis of various tissues, particularly subcutaneous tissue and

In conclusion the author recommends caution in the application of his experimental findings to man nerve fibers

The Treatment of Pyogenic Infection er, E the treatment of ryugent flictions and Its Sequelæ (Die Behandlung der p) ogenen Infektion und ihrer Folgen) 58 Tag d deutsch Lexer, E

By "pyogenic infection" is usually understood not merely wound contamination with pyogenic organisms, but also the consequences developing during the course of the local disturbances after

If one regards as a general disturbance the influence of the local disturbance on the organism as invasion of the tissues a whole, comprising attack and defense, the destruction and restoration of tissue, which can lead to general infection through absorption of the bacteria and their towns and the constituents of broken down tissue with resulting infectious resorption fever, one finds even in this conception a basis for all that which, for convenience, we still often term simply "sepsis".

There is as yet no uniformity in the treatment of local pyogenic infection The guiding principle of the basic rules has become largely lost, partly because of overvaluation of the methods of treatment proposed and partly because of underestimation of

Infection of a wound or mucous membrane surthe processes and their results face takes place by rapid absorption of toxins and pathogenic micro organisms into the lymph or the blood stream Thereby the defensive powers of the organism are aroused and some of the micro-organiisms are removed. If many micro organisms from h human disease focus enter a body that is lacking in defensive powers, a general bacterial infection may The latter may occur even before the development of a local disease picture However, as a rule invasion follows the infection after a more or less long period of adaptation and maturation. In this fact may be found the reason for the success of operative care of the wound in cases of wound infection—complete excision of the wound according to the principles of Friedrich in cases of superficial wounds and the removal of all injured and dead tissue according to the rules of von Bergmann's school in cases of deep wounds

The local clinical picture is that of a fight consisting of attack and defense The fiercer the battle, the greater the destruction and suppurative dissolution of the fighting tissue The tissue gains the victory when it succeeds in walling off, destroying, and expelling the attackers and their toxins and the poisonous mass of dead tissue On the other hand, in the case of the toxins of putnd and gas cedema infections, in which the poisoned tissue is hardly capable of putting up a defense, toxic general infec

The correct aim of treatment is support of the tissue in its fight against the excitants of the infection follows very rapidly tion There are four ways of supplying this support, which, used at the right time, supplement one Raising the general resistance This may be

definitely effective when local treatment is imposanother

able or baseficient, as in crysipoles or server exposuron of the meanus members. Under such circumstances the best results are obtained with convaluences terms and blood transfances and somewhat less satulated by results with specific therapeutic server, vaccines, and proteins, remedies which, outfounly used, may be effective also in general infection. Resurption server when it per also or mecura in spite of early correct local treat facts or mecura in spite of early correct local treat infections and of the need of the organization support. However in cases of acutely progressing inflammation proposed to proposed the progression of the organization support.

consequences s. Strengthening of the local defense processes by lucreasing the inflammatory process is an idea by which Bier has created for himself an enduring monument. It cannot be doubted that the action of peasive hypernomia consists to a powerful increase in the activity of all the cells of the reticulo-cadothellal system which are capable of phagocytods Nevertheless, in all of the more severs infectious rocesses this procedure is a two-origed sword for an increase in the inflammation causes an increase in tiesue pressure and therewith spreading of the infections masses of exedete through increased breaking down by the action of the leucocytic ferments which dissolve protein. The hope that the one of small incisions would prove sufficient in all cases to prevent necross of bones and tendons and destruc tion of lounts has not been fulfilled. In acute suppurations this method of procedure has wholly falled Moreover, t is associated with the danger of spread of the exciting micro-organisms by the blood stream in consequence of increased absorption after removal of the constriction bandage

Hoffmester and von Seemen have shown in ani all experiments that treatment by peasive hypersmar results in an excesse in the number of dyntering relia of the returnle-conductual system in the systems incurbation of the points. Similar experitions are superimentally as the system of the contract of these cells particularly on the metaphysical note of these cells particularly on the metaphysical note of these cells particularly on the metaphysical note of the pophysical line. That the dulation of the form by criticism with subsequent recorption may have a considerable effect is known from the clinical course of competted (shits infected

by the ganosoccus

In its local effect, treatment by passive hyperarms bears relation to treatment with positives
and most dressings. However the right may be
cost of the tissues and as therefore objectionable. In
mastria it is followed by the casting of a secondportions of the maintary gland. If sample for the
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shall no demonstrate these (symph passages by the
integrition of links and said to slow in constiguou-

grams the corresponding points of attack by the infection in the bone and joints

However when purposity used, these procedures also ofter actuatages. Rosentings invadicated, was stimulation of the circulation, and het between shorter at some the product of the circulation, and het between shorter at the product of the circulation of the product of the product of the circulation of granulation beause after correct operative trust ment. However, when the indirection is already as an advanced stage, these measures should now us to an advanced stage, these measures should now us not without the control of the product of the circulation of restriction, particularly in bose and joint supportations.

According to Bler the burning of persistry inflamed tisser produces local and greeral hierase in the defensive powers to addition to local detriction of the inferred tisses. The procedure, which often appears drastle, easy indeed set homanom processes into action, but according to the finding of Erb, it is doubtful whather the latter reach the point of increasing resistance to the inferred

3. Operative opening of the form of infector. The does not have for its after the destruction of the bacteria responsible for the infection, which is the objective of does notificated. The chemical substances which is able to kill pathogenic becteris in diseased disease only in solutions so strong as to cause these accords. Success is best obtained by laborations on succession of the control of the contro

In operative treatment, include performed or rectly and at the proper time is still the preferred procedure. To be correct, the haldson must be used without causing tusous largery which will result a disturbance of franction in must be as large as seemary, and as small as possible and it note creattive for tension is before for dratage. The print time for tension is before dratage. The print of the form of the control of the control of the control of the control of the copies of the control of the control of the copies of the control of the copies of the control of the copies of the copies of the monetrality requirement of the copies of all of the copies of the copies of the state of the copies of the copies of the state of the copies of the state of the copies of the copies of the copies of the state of the copies of the copies of the copies of the state of the copies of the cop

In scaling the horses, the surpost is justified in the scaling term horses only when the thindmagnetistic term horses only when the thindmagnetistic flower and decounts of a pearly better the thind the scaling of the scaling better to perform were an amputation if that specified mobile the necessary. Vecous ligation can bely only if the vern ligated constitutes the sain rows of greated of the sizection from the peripheral regress and the size of the Righton as is a portion of the was high as still hossilly. Simultaneous early exposure of the pour-encors intersities; may cheek the further progress of the lofsettip bacteris. If the tissue is not strong enough to destroy and expel the infectious residuum after the focus has been opened up, the operative opening must be followed by further support of the healing processes by all measures which increase the flow of wound secretions, further the separation of necroses, and stimulate the formation of good granulations. Frequent changes of irritative moist or ointment dressings and sugar treatment in combination with warm baths or passive hyperæmia are the most advantageous methods when associated with gentle treatment of the tissues in the changing of the dressings and rest of the part

These simple basic rules of operative treatment

permit wide variation in the details

The main grounds on which, even today, efforts are being made to change these basic rules are to be found in the belief of many that the tissue can be so strengthened that it will be able to deal with the infection almost alone, in the efforts of many to limit incisions to the smallest possible in all cases, in incorrect treatment of the incision wounds, and, finally, in the difficulty in recognizing clearly whether aggravations are due to virulence of the infection or the method of treatment. The fear that operation may spread the bacteria in the tissues when, with the frequently preferred treatment with compresses, a defensive wall has not been formed, is a common and often serious error. This is true also as regards the treatment of carbuncles of the face and neck. If these lesions do not progress, the simple application of ointment on muslin, which keeps a way open for drainage from the pus cavities, is better than the use of poultices which, by the softening they produce, favor advance of the infiltration. The latter treatment is responsible for death from delay of operation and for extensive carbuncles requiring very extensive interventions

Increased resorption of infecting bacteria following the incision occurs only when the wound is improperly treated. Antiseptic wound treatment with chemicals is no less dangerous than the wiping out and painting with tincture of iodine of tissue that is infiltrated with pus. The actual cautery produces the same result by creating an eschar which obstructs the escape of the secretion from the inflamed region. Mechanical cleansing of the wound surfaces with every change of dressings very often leads to fever because of resorption of the infecting bacteria. This subsides immediately when the wound treatment consists only in covering the wound with oint-

The wound of the incision never of itself lets the infecting bacteria penetrate deeper as the tissue is under positive pressure and the fluid in it passes outward from the fresh wound surfaces. Only if the tissue is treated roughly, does the infection spread in the tissues. Then, if the infection is severe, it may spread even from suppurating granulations. Frequent fever with spreading inflammation instead of a fall of the temperature is the result. In even extensive purulent osteomyelitis with high fever and

ment on muslin

large numbers of staphylococci in the blood, careful opening of the bone marrow cavity is followed by a fall in the temperature and disappearance of the bacteria from the blood. It is necessary only to keep the wound open, drain the pus from the deep parts with tubes, and drain the oozing tissue fluid by capillary drainage.

The use of the diathermy knife and the removal of tissue infiltrated with pus by means of the electric loop offer great advantages. The danger of post-operative resorption is entirely eliminated by these means, the passage of fluid from the tissues into the wound is not obstructed by the cooked layer because there is no eschar, and hemorrhage and pain are slight (von Seemen). The wound is dried out by tamponade only when the mistake is made of using a tampon for more than two days at the most instead of replacing it by moist dressings or ointment on muslin.

The most frequent error in the operative treatment of wounds is a poorly made incision—either an incision which is too long and causes functional disturbances or an incision which is not long enough Other mistakes are mechanical cleansing of the wound by sponging, insufficiently gentle treatment of the tissues (curetting and scraping, painting with tincture of iodine), chemical and thermal injury (derivatives of quinine, ice bag), firm, instead of loose, tamponade inducing retention of the secretion instead of capillary drainage, and the indiscriminate use, in every operation on an inflammatory focus, of Esmarch's bloodless field which favors the detachment of lymph thrombi and venous thrombi

Infiltration anæsthesia induced in the inflammatory tissue or its close vicinity should be avoided as it forces the infectious exudates of the tissue into the nearby lymph passages. Moreover, there is no necessity for this kind of anæsthesia.

4 The fourth means of treatment consists in placing the diseased portion of the body at rest, in the case of the extremities with elevation if possible Every tissue which is putting up a fight must be aided by rest and measures to establish good circulatory conditions. A correctly applied bandage is often of itself enough, as is evident from the frequent rapid retrogression of acute lymphangeitis and lymphadenitis and of erysipelas following the application of immobilizing bandages.

The first immobilizing bandage should be so applied that when the wound dressing is changed only a part of it need be removed and all unnecessary movement may be avoided. The changing of dressings necessitated by a rise in the temperature or saturation of the dressing must be carried out with extreme care. As a rule it should be done without the use of general anæsthesia in order that the complaint of pain may give warning of tissue irritation.

The immobilizing bandage should not be used

too long

The acute stage is often followed by tedious illness of varying character Fistulous suppurations, coated wound granulations, and resistant and extensive

ordemas are evidences of the difficulty experienced by the gradually exhausted these in cleaning away especially large loci of necrods. The object of treat ment must be the complete exhalists and solver or store of the necrotic areas, not their encapsulation which carries with it the danger of latent infection. This a crident most clearly is supported the ostcomyedita. is expect times creatly in suppose the continuous of the second in which foci left behind may be roused by trauma by sease later to the most severe inflammations and may even give rue to endocarditis and myocarditis. It Is therefore better to remove recrotic foci after enlarging the fistule than to obtain healing of the testing one menne men so occam assume or me nature, with encapsuments or necessary for my manufaction of chemical substances or by placing mag spec within them. Softening and separation of the goes writing them. Doctoring any separation to the heat treatment, but knoth dreadings, short ways free trent, or the induction of passive hypersmis Residual cedemas are favorably influenced by sand paths, under water manage, and vascular gym

in the course of the last thirt) years the tendency In the course of the mass that years the resonant has been, on the one hand, t limit the extent of interventions more and more and, on the other hand, to search for means of increasing the general and local renstance of the theres in the organism Honerer the unfavorable as well as the favorable factors of these tendences, must be considered Chef among the former is the fact that, more fre cases among the memory or the race many more or quently than previously the the general practideepey man payroung to the governor payround thoner who handles these cases in the all important carly period of the disease and it is he who decides on the intervention necessary and often carries it on the intervention is thus often inadequate or per out the operation of the brick manerican or per-formed late. More and more are these cases coming into the heads of the surgeon in neglected state The chief requirement, which must be mot despite and her views, is an early and sufficiently extensive operation in progressive cases. The necessity for surgical treatment can be correctly judged only by surgest treatment can be currettly jouged only by an experienced surgeon and only an experienced surgeon should perform the operation. The chief market of the part a program infection. pertuen of the significant a program uncersariant be left to the tissues and the organism withcannot be set to use tissues and the organism settle out resulting severs injury. This is evident partic ularly in suppurations of the tendon sheaths, bones, and joints

Whoever thinks that he can recommend some thing new and better, most my in what manner and secording to what basic rules he has previously carried out the local and general treatment of progreec infection. Ca tion in criticism is all ays t be recommended

(LETTE) FLORENCE ANTAN CARPTUTES

### AR ESTHESIA

Waters, R. M. and Schmidt, E. R. Cyclopropane Amerikesis. J Am 1/ Att 914, 3 971 The authors report the findings of year study of cyclopropune at the Wisconsin General stony or cyclopropulae at the monormal occurrence. Hospital, raci ding over ,000 clinical administra

tions. Cyclopropane is a gaseous honor of pro-pylene. The technique employed in its admenticapysics: The recumpler employed is an automorphism in that known as the carbon-floride absorbing technique. Cyclopropane is capable of produces nacrouslyse. Cycopeopulate is capture or protocols nacross when it is inhaled in a concentration is low as 4 per cent, but a plane of annahesia aufocies for as a per term, out a passe of automates automate or the majority of abdominal operation require or

the majority or accommand operation of c) depropose we range concentration of 11 per cent.

In the cases studied the induction of c) depropose an any post a speciated to be dutte as bleatist as the of nitrous oxide amenthesis though ices rapid & covery section to be more frequently accompanied covery seemed to be more integerably accompanies by names than after the use of autroes order me by natures than state the use or sample of same and college and empens. Currously severs sausce or sacres are youniting more often followed minor administrations of the gas then its administration for major muon Cyclopropane has given settification as a prefusionary to the induction of other anesthesis.

At the end of the reported year's study the author and that cyclopropane is replacing eth less t the Wisconsin General Hospital to the satisfaction of amesthetists, surgeons, and patients They choose a amenteeting, surgroun, and patients. Any travel in preference to other in all over 75 per cent of the to becelving to creek as used formerly. In case in which ether is still employed there seems to be as increasing tendency to choose cyclopropane is interesting temperary to conounc cyclopropage as ether anesthesia HERREST F THE RESTOR IN D.

Sonning E. Therapeutic Denters and I Jurie Dangers and Jurie from Level Assembles (Chappeutic Settlers and Assembles Cetabra and Scholausers durk of July Scholausers durk of July Sonning Settlers and Settlers and Settlers

Local anesthesia has a number of advantages over general anaschesis for the practitioner However is is associated th castalo qualities and is catalog of account on a company of a catalog of the castalog of the catalog of the c causing certain injuries which are not as ell known canning terrain injuries which are not as the astronomy and and are the greatest against by an astronomy and a state of the second against by the second against the the physician These diagers and injuries are due to three important causes ( ) polsoning, (s) these is-

Fostoning may be caused by the anesibetic or the addition to the total quantity injected (maximum dose) the concentration of the sol tion and the method and rapidity of the injection play a part I travenous and repeatly to the infection be exceledly to be avoided I general it is a Ays preferable to me. cal solutions and inject them slowly possibly at intervals, and sho to add adrenalin Among the substitutes for the too toxic cocale, tropacocus is preferred for spinsi anaesthesis and purcain for sur lace angethesia. Pacaia should not be used for issection by the practitioner and for author same these it should be used only it's special caution For injection, novocaln is best Tatocaus and copecially partocain, possible the equal parts of horocain, re sho satisfactory. However even these substitutes for cocasa are not lithout danger Therefore, mail doses, dil te solutions, slow injec tion, the avoidance of intravenous injection and, is the induction of regional aresthesis the observance

of special care in the region of the spinal foramina are necessary. Like the cocain preparations, adrenalin is non-toxic only if it is given in small doses and in a very dilute solution and is not used for intravenous injection. The value of substitute preparations of synthetic adrenalin or from the posterior lobe of the hypophysis has not yet been proved Even the combination of cocain preparations and adrenalin may be toxic.

As a rule tissue injuries need not be feared from the ordinary procedures. However, the solution must be administered at body temperature and must be isotonic and sterile. Moreover, a harmless anæsthetic must be chosen and the adrenalin content must not be too high. Adrenalin is dangerous when the tissues are tense or rigid, also in peripheral parts with end-arteries (fingers, toes, and skin flaps), and in infections. Its use is especially dangerous in circulatory disturbances such as those associated with Raynaud's disease, endarteritis obliterans, arterio sclerosis, and diabetes. In these conditions it is safe not to use local anæsthesia or to use less or no adrenalin. Injury to the blood vessels of the nerves may lead to special disturbances. In the induction of

anæsthesia by the application of cold, care must be taken to avoid injury from the use of too cold agents and too prolonged application of the cold

Infection may be produced by the apparatus used or the solution injected. Sterilization is done best with steam under pressure at a temperature of 120 degrees. If this method cannot be used, the separate parts of the syringe and the needles should be boiled, and sterilization of the solution in small quantities at a time or by means of a bacterial filter should be done unless prepared solutions in sterile ampoules are used. Infection is favored by contamination by bacteria and by tissue injury. Therefore, progressing phlegmons and sepsis are contra-indications to local anæsthesia.

Fortunately, the injuries and dangers mentioned are not frequent and can usually be avoided by careful observance of the indications and the use of a correct technique. Therefore local anæsthesia in its simplest form remains the most harmless anæsthesia for the practitioner.

In conclusion the author gives the indications and describes the technique for the induction of local anæsthesia (SONNTAG) LEO A JUHNKE, M D

### PHYSICOCHEMICAL METHODS IN SURGERY

#### ROTHTGENOLOGY

Porritt, A. E. The Diagnostic and Therapertic thes of Thorburn Dioxide. Proc. Roy Sac. Mat., Lond. 1934, 47 1493.

After revisering briefly the discovery by Ota and Back that thorium disculate will reader the lives and sphere visible receiptemporably the author disentries the rechanges of its use and field of applicability. No immediate harmful after-efforts have shown to be a superior of the second of the short of the second of the second of the ten safficient for the determination of a position recommission of the second of the present cases in metal the second of the second of the second and the second of the second of

Two cases abording the values of the method are reported in drait. In the first one the one of their doude demonstrated that a questioneshle abbonding mass was not connected with the atomach or liver but was probably of the nature of a retroperitoscal acroma. Inreducing the properties of the before at that part of the favorable resection as wellbefore that part of the favorable resection as wellbers that part of the favorable resection as wellbers do not be formationed to the distribution of the the atomic restribution in the adjustent liver. In the second case, doubtful mass was found to be due to the considerable of the atomic and the probably of the state of one and deep of the chorum attitude of the atomic and the place of the chorum attitude forms.

In conclusion the author may that while it is generally believed that the radio-active properties of thorum are precisedly arguiphie, the propellity of beneficial effects from prolonged contact seem to warcast further classical and experimental research regarding them.

Accurate Harring, M.D.

Grier, G. W. Radiation Therapy of Cancer of the Skin. In J. Resulpted 1934, 32 and

The administration of massive does of madiation is now generally accepted as the treatment of choice for cancer of the uses. If rountgen rays are em-

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instituted is given.

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Ellist, A. R., and Jenkinson, E. L.: Elevation of the Stometh and Small Intertion Following Recution Therapy: Report of a F tal One with Perforation. Reliefy. 934, 21 149

The possibility of densiging the gustro-intestral tract by deep receipen breduction has been decare strated experimentally and by a pumber of church observations. The authors report a case of Hody Mo discuse in which deep rocutern irreduction was followed by multiple picerations of the storuch and latestines which terminated latally by personation Generalized adenopathy, including marked enlargement of the measurement lymph nodes, as present During the period of alse months from March & to 1929, the patient received total of December s So e units of rountgen breakstion given in abse treatments. The treatments smally consisted of inradiation of one anterior and one posterior area of the abdomes At no treatment are more than 170 f given to any one area. On to occasions a total of as given through two portals. The bact recet gen trestment was giren December 1 1929, ber 150 f units ere administered After that trusment the patient felt week and complained of loss of afternte and generalized aching which as executive severe across the abdomes. He entered the hospital February 3 1030 Abdominal symptoms ad same of various types and varying seventy ex astonly let to disposes of general peritoritie and an explora-tory imperatory was performed. The patient ded on February a

The visceral changes found on gross and micro scopic examination at autopsy consisted, in brief, of a single huge perforated ulcer and multiple smaller ulcers of the stomach, eight circumscribed annular ulcers of the ileum, and necrosis and hyaline scartissue changes in the perirenal and mesenteric lymph nodes. Gross and microscopic examinations of the parabronchial, biliary, mesenteric, and perirenal lymph nodes disclosed tissue structures that resembled lymphogranulomatosis only very slightly. The spleen presented no indubitable changes of that disease

The autopsy findings seemed to offer little evidence that the ulcerative processes were of the nature of an active lymphogranulomatosis. The changes discovered were comparable to those described by others as gastro intestinal damage due to roentgen irradiation. Adolph Hartung, M.D.

### RADIUM

## Scott, R K Radionecrosis A Clinical Study Med J Australia, 1934, 2 1

Radionecrotic ulceration is an ulceration which appears at any time or persists after irradiation. It is characterized by chronicity and the presence of necrotic tissue which shows little tendency to separate. On the basis of the time at which it appears, three types are recognized—the immediate, the subacute, and the delayed

In the immediate type of radionecrotic ulceration a slough appears immediately after the treatment. In the subacute type, healing becomes arrested after from six to eight weeks of an apparently normal reaction. The delayed type occurs in irradiation scars and has been known to develop as late as ten years after X-ray therapy. It seems to be due to intensive or repeated treatments with inadequately screened X rays. The etiological factor is an insidious, progressive pathological change in the connective tissue.

The most striking clinical feature of radionecrosis is the chronicity of the ulcer. An unexpected histological feature is a general deficiency of polymorphonuclear leucocytes in the periphery of the necrotic field The thickening of the tissues surrounding the ulcer may cause the clinician to suspect residual malignancy Indeed, malignancy has frequently been demonstrated in such an area The peripheral infiltration must be regarded as a tissue response to irradiation The edges of the ulcer are irregular The base is composed of necrotic tissue in which the central slough shows stranding Granulations appear late The epithelial edge may grow slowly between the fibrinous surface, but more often the fibrin acts as a barrier Tendons frequently show a tendency to ulcerate and when they become involved by ulceration their loss is inevitable. After sequestration of necrotic fibrous tissue, cartilage, or bone has taken place, healing follows slowly Pain occurs in the early stages and occasionally is very severe Involvement of the mandible is especially liable to

cause severe neuralgic pain. In the late stages the pain is less severe. With the onset of healing and separation of sloughs it gradually ceases. Infection is an essential factor in the development of necrosis. Hamorrhage is not infrequent in the immediate type of necrosis, but is rare in the subacute type. Often observed is a superficial type of ulceration which may be quite extensive and shows a remarkable tendency to separate. Healing is slow. The author has seen the subacute type of necrosis in the lips of syphilitic patients and in breasts. Late necrosis occasionally develops in the neck in an area of scarring and telangiectasis following radium pack treatment.

Beta rays seem to have a destructive action on the tissues which favors necrosis Radon seeds containing 15 mc and filtered by 03 mm of platinum frequently give rise to necrosis when they are buried extensively in malignant tissues Therefore, especially near bone and cartilage, the use of radon seeds has been abandoned. The chief factors responsible for the necrosis seem to be a foreign-body action and prolonged irradiation with a high total dosage of beta and gamma rays According to the author's experience, the screenage is insufficient and necrosis is favored by beta ray fibrosis. Scott cites cases of late radionecrosis from beta-ray irradiation states that the dosage of gamma rays is also very important The general practice of using 1 o mgm of radium per cubic centimeter of tissue for one hundred and sixty-eight hours is erroneous. Such overdosage is apt to produce the subacute type of radionecrosis The late types more frequently follow beta irradiation, treatment with inadequately filtered X-rays, or repeated X-ray treatments Especially in the tongue, the immediate type of radionecrotic ulcer is probably a manifestation of gamma-ray overdosage In the past year the reduction of the dosage of gamma rays has apparently improved the results. The importance of cross-fire from several long needles in parallel planes in the causation of radionecrosis is difficult to estimate chnically At the present time it is thought that five day doses are less satisfactory than seven-day doses, and that an initial intensity of 20 mc per cubic centimeter is too high Consequently, the dosage has been reduced to 143 mc-hrs per cubic centimeter in seven days and the initial dosage to 15 mc Further study is necessary to redetermine the clinical limit of connective-tissue tolerance The goal is the maximum amount of irradiation necessary to destroy the tumor without risk of damage to the host stroma

The rôle of infection as a primary factor in radionecrosis is well known. Late radionecrosis usually begins as a superficial necrosis which persists. Infection with the bacillus procyaneus causes a marked delay in healing. Diffuse fibrosis, which is a common manifestation of tertiary syphilis and the arteritis combined therewith, causes a decrease in the blood supply of a part with resulting local tissue death, namely, immediate radionecrosis. In the syphilitic

tongue, healing is favored by stremous anti-spakinitic treatment, but the fibrosis ravly disappears Malignancy in a spykillite tongue is nathoesestive and the special process. In the recurrence may be of the slow growth and associated with irregular movine. The most nacrosid presentation to disturbe the most nacrosid presentation to disturbe the most nacrosid presentation to the theory of reports the contract of the special properties of the process of

With regard to the relationship between the type of millipancy and midinocrosis Scott says that the best results from irradiction are obtained in the hypertrophic type of malagnancy. The identifies type of tenore a the considerable destruction of the millipant themse and completing septic, which is notified to the second state of the second to the meet necessitates deeply brushed irradiation to reach the advancing edge of the tenore. Therefore, not inference to the second state of the second to the layed following normal doses of limitation, rescalar departments of the second to the second tenor trophic grammation tissue, in cases of delayed healing necrotic tissue may be present or may debesting necrotic tissue may be present or may de-

velop later

The indirecting type of malignancy such as activous carcinous of the breast, extreming tuber or indirecting pitched on the coague as particularly flable to undergo records. In case of such issues the niceration is maintait and the patient does not seek whole until list, when the tensor is often quite extensive. The fibrosis observate who is thought the substantial particular the substantial particular the substantial particular that is any other in the cases of agad and deblitated patients, treatment with burder peedles is receptually not advantable.

Radionecrotic ulcers with cartilage in the base are seen following the burying of needles over the car tilage of the some and car but nly when the cartilage or its perichondrium has been infiltrated Needles are bursed in such attrations without hadtation. If the cartilage later becomes exposed or infected, t can be easily removed and its removal all be followed by heating. When home or cartilage malignant process, accross a fais involved by evitable Secondary infection always occurs. The separation of bone necroals takes months or years Is the treatment of lessons of the alveolm, bursed needles are used with the knowledge that radionec rouls of bone is inevitable. Specules of bone will be discharged for years if the malamancy is controlled. In most cases, however there is a foul circr with a deep slough, healing is slow and toxemia adds conadderably to the general debuity. In some cases the

condition clean up, but in the early stape the yis is severe. The therapiet is more worsel by the one developing a subacute necrosic which expose per tion of bone and may persist for manile we yeen. This condition is probably the result of local pursury jurnification. On the dones me of the least the term of the property of the condition of the least the property of the condition of the condition of the least the condition of the because and sloughting of tenders. A class includy infected under meaning complicated the facility infected under meaning complication of the impossible. Plastic operations are marby secondari. As a rate ampetation is necessary and in many

The treatment of meligrant recurrence following surpical excision of the primary growth requires special curve on account of the increased meligrang of the recurrence, the limitation of the blood and lymphatic connections, and the consequent increase in which the removal of indected teeth is necessary redisonerous in circumstant follows around done of irradiation. Cardens removal of teeth with suvenier to the contract of the germs or breaking of the took roots is one of the game or breaking of the took roots is one of the cause of necrosts of the strong and reports and reports and reports and respectively normal irradiation.

of the tissues.

Manuface recolours in the treatment of malignancy developing on a previously irradiated are: It cases of epithelicoms developing on an ares of large replacements previously irrade by receiping in reduction healing is often greatly delayed. Recursed lesions previously treated with radem are more resistant: second or third treatment, expectably the sax systems of the fact and the second or third treatment, expectably the sax systems of the fact and the second or third treatment, expectably the sax systems of the fact and the second or the fact are and a network of the fact are and a network of the restriction of the growth breaking down of the treatment area, and a network of the restriction of the state of the fact area, and a network of the restriction of network of the fact area, and a network of the restriction of network of the second of the

The treatment of radionecrotic ulceration present memora problems Infection and transitions be combated in late cases radical treatment is as doubtedly the treatment of thocks. English must be complete with removal of the fibrotic basal are to the olceration. Duthermy with a cold intell must be used according to the inducation; mustly take the contract of the contract of the contract of the state of the contract of the kind, where entered is impossible. In the north, engined and every status has given good result. In appetical sense in which beating is delayed following irradulties, skin grafting by the method of Wangensteen has been successful and has many advantages over the method of Thiersch Conservative treatment consists in efforts to combat sepsis, to restore the circulation of blood, to assist separation of the slough, and to prevent deformity Pain must be controlled The most useful dressings are a 1 200 or 1 400 so lution of Monsol, a 12,000 solution of flavine, hypertonic saline solution, and pure glycerin Heat and hypertonic solutions are of value. The application of a plastine dressing is helpful and percaine ointments relieve the pain Pieces of slough may be removed with the scissors. The application of equal parts of unguentum hydrargyri ammoniati diluti and unguentum zinci oxidi has proved beneficial In immediate and subacute types of buccal ulcers conservative treatment is the only possible treatment Mouth washes of eusol, hydrogen peroxide, or potassium permanganate are helpgen peroxide, or polassium permanganate in buccal ful The food must be soft The pain in buccal ulcers, which is very distressing, is of two types—a dull continuous pain and a sharp intermittent neuralgic pain Morphine may be necessary Injection of the mandibular division of the nerve with pure alcohol at the foramen ovale may be indicated Sprays of a 1 2,000 solution of percaine in glycerin

Radionecrotic ulcer may cause complete disability Treatment for pain and cleansing measures to permay be helpful mit healing are necessary In late necrosis, complete resection of the damaged tissues should be done The procedure of choice for repair is an immediate plastic operation Conservative treatment means months of disability In three cases reviewed by the author deep radionecrotic ulceration of the subacute type occurred in the neck following the application of a radium pack and severe toxæmia and death due

The author urges rejection of the term "radium primarily to the necrosis resulted burn" In conclusion he states that, because of the nature of the cases coming for treatment, the occurrence of radionecrosis cannot always be avoided in A JAMES LARKIN, M D any large radiotherapeutic clinic

## Pathological Manifestations in gnt, K. D. rathological Malliestation Radionecrosis Med J Australia, 1934, 2 S Wright, R D

Radionecrosis is defined as massive continuous death of tissues for which radium or the roentgen rays are directly responsible. By the term "massive death" the author means that the tissues die as a whole He states that there is no "differential death" such, for example, as death of the vascular methods and the control of t tissue without death of the fibrous tissue or death of malignant tissue without death of the stroma

The aim of short-wave therapy is to kill neoplastic tissue without causing serious injury to normal tissue The ideal result is a cytocaustic rather than a histocaustic action Under certain circumstances a misucausur action of the contraction, and under no irradiation will produce an ulceration, and under no circumstances is a therapeutic dose without effect on the reparative tissues The dose may cause rapid

degeneration of the normal cells and of the abnormal ussues The desired result is degeneration of the abnormal tissue with subsequent repair, but the neoplasm and the stroma, and possibly the surrounding tissues, may die progressively rounding assues, may are progressively ring type of necrosis is called "acute" or "immediate." In other cases the reaction to the irradiation occurs normally and the appearance of the ulcer formed suggests that normal repair will take place, but ultimately the entire process becomes stationary unumatery the entire process becomes stationary. This type of necrosis is termed "subacute" or "delayed". A more unusual occurrence is the breakng down of a previously healed lesion This type of necrosis is described as "late" or "remote"

The pathological findings in cases of acute necrosis are typical of tissue degeneration elsewhere, with loss of cell and nuclear structure. The author describes the histological picture in detail. He states that there is no satisfactory evidence that an increased rate of mitosis in tumors has a fundamental effect in increasing the sensitivity derived by the neoplasm from its parent cell The less differentiated the cell, the longer its mitosis, and the more frequent its mitosis, the greater its radiosensitivity may differ in sensitivity even when the factors of

There is no known way of decreasing the sensitivity of vascular and connective tissue Factors mitosis are constant which increase it are favorable to necrosis Previous irradiation greatly reduces the dose necessary to cause a breakdown When the stroma is scanty the breakdown will be massive. Underlying syphilitic lesions with endarteritis, collections of radiosensitive small round cells, granulation tissue, and sometimes gummatous necrosis greatly augment the massiveness of the breakdown process Arteriolar sclerosis increases the tendency of stroma to break down Latent uramia and diabetes are apparently other factors in the occurrence of breakdown Breakdown is dependent also on the general health of the stroma and of the patient Local conditions are of great importance Tissues subjected to irradiation have a reduced reaction to infection The anatomical arrangement of the part irradiated, such as the proximity of bones, tendons, cartilage, and fascia,

In the presence of asepsis, slow repair may take place, but when sepsis is present, casting off occurs is important. Following observations made on tissues subjected to excessive dosage, the author made similar observations after the use of therapeutic doses to determine whether the latter caused similar changes. In experiments on dogs, radon needles 2 cm long experiments on dogs, radon needles 2 cm long which contained 20 mc per centimeter of length and were screened with from 05 to 08 mm of and were screened with from 05 to 08 mm of platinum were implanted under the skin of the forelimbs and the skin of the ears and left in place for six days The ears were examined three weeks later and the forelimbs eight weeks later. The cartilage showed destruction of the perichondrium with degeneration of some of the chondrocytes and a beguning granulation-tissue invasion of the cartilage ٠,

#### INTERNATIONAL ABSTRACT OF SURGERY

The bones showed subperiorsteal rarefaction with gramulation-times formation. These charges were definite evidence of superickal destruction of the bone and cartilage. Repair was taking place. Ac cording to Phemister's insidings, a finis-tile sequentration would have required it infection had occurred.

Muscle tissue close to bose which has been brus dated frequently shows nectosis. According to Mottem, this is due to the semodary irradiation from the bone. Is the treatment of tumors of the mouth by irradiation, necrosis of muscle near bone and necrosis of irradiated bone occur frequently if infection developes.

In subcute secrets the underlying factor is falling of repair. Sharel secrets is a resumen consequence of artis secrets and frequently occur in cases in which the reculon to includation is normal and healing is repected. One of the chief causes of recurrence in "public The author describes the pathological changes in detail with photoesterophas. He states that the question of the adversary of the blood spoply also arises even though ligation of the returnal crudid states; or the affected side has in some cases been followed by prompt bening Ultimate healing occurs only when the new formattion of hyriline those course and the remnants of this times are removed. This times is replaced.

a poorly formed granulation these, and healing takes plate over this foundation.

Late necrosis occurs in scars resulting from harmsive A-ray or radium irradiation. In a non-elegated area of specimens of such necrosis the author found alight thunning of the area with almost complete less of peplitation, sweat and schemous glands, and The fibrous corbum showed an irregular over growth of fibrous and siestic tiesse. There was evidence of the formation of fibrous tissue. Trianner tasis was well developed. While other lavesticators have reported progressive endurteritis obliterant Uright was unable t find any evidence of this change in two cases of late necrosis. The skin tenperature in the scarred rea is less stable than that is normal theme, but so lower Wright concludes that the total bacod flow in the scar produced by radium well screened with 0 5 mm of patients and in the thick scar produced by lightly acreered V-ray is no less than that in normal skin, and that therefore the cause of the ulceration is not a decrease in the blood supply. His findings show that the spitchess is thin and devoid of appendages. There appears to be a premature aging of the cell constituents. The ultimate death of the latter appears to be saalogom t the changes observed by Spear in tiesue cultimes A Jum Lum, MD

# MISCELLANEOUS

# CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

The Absorption of Dextrose and Water by the Small Intestine and the Colon WHEER UP THE SHIRL INCOME HIM THE COLOR AND Experimental Study Arch Surg, 1934, 29 Cutting, R A

Cutting says that in view of the relative facility with which the colon absorbs water and, according to his experimental findings, dextrose as well, the prejudice of many surgeons against proctoclysis is

In the human adult there are at least 2,110 sq cm of mucosal surface in the colon, and if the human difficult to understand colon absorbs at the same rate as the colon of the dog, it is capable of absorbing about 240 c.cm of water and 30 gm of dextrose per hour from a procto-

Failure in the use of proctoclysis is due to too clysis of 5 per cent dextrose solution rapid administration, which favors expulsion or leakage, or the use of hypertonic solutions, which tend to withdraw fluid from the tissues and are inimical

Experimental findings in regard to the absorption to the absorption of water or dextrose Experimental findings in regard to the absorbed dif-of dextrose by the colon have yielded markedly dif-far from conclusive The ferent results and are far from conclusive problem is far more difficult than it appears to be at provided is lat more difficult dian it appears to be at first. The blood-sugar level does not rise proportionable and the state of the ately with the intestinal absorption of dextrose In 75 per cent of cases the anæsthetic agent and surgical nanipulation cause a rise in the general blood sugar level Conclusions based on variations of the respiratory quotient as an index of intestinal absorption of tory quotient as an index of intestinal absorption of dextrose are valueless. The introduction of measured amounts of solution into the intact intestinal canal through the rectum and their recovery by the

The author's experiments, in which trauma was same route can never be accurate reduced to the minimum, the periods of observation were long, and accurately measured areas of intestinal mucosa were compared, demonstrated that the colon absorbs dextrose as actively as the ileum and absorbs water in far larger amounts than the ileum

# Phemister, D. B., and Livingstone, H. Primary

Psychic effects on the medullary centers caused by pain or fear from injury or operation may result in a fall in the blood pressure, bradycardia, pallor, and faintness which constitute elements in the syndrome of shock Abdominal operations, especially those on the stomach and biliary tract, may cause a fall in the blood pressure to shock levels and brady cardia, probably as the result of stimulation of the autonomic fibers of the vagus nerve

As a rule, these primary psychogenic and neurogenic depressor reactions are transient and of minor genic depressor reactions are transient and or minor importance, but occasionally they may be severe Importance, our occasionan, they may be designated as primary shock. If other factors lowering the blood pressure, such as hæmorrhage, are superimposed, a marked state of second-

Injury and stimulation of somatic nerve trunks in accidental wounds and operations usually do not ary shock may develop accidental would and operations usually do not cause a fall in the blood pressure or any other shock phenomena if hæmostasis and anæsthesia are adephenomena il memoscasis and anasthesia are adequate However, there are cases in which a fall in the blood pressure occurs early without a known cause and under such circumstances it is difficult to

The fall in the blood pressure occurring immediately after the release of a tourniquet is due largely rule out a nervous factor to the entrance of blood into the extremity which then becomes the site of a reactive hyperæmia However, it is impossible to rule out completely the operation of nerve impulses or toxic substances Primary and secondary shock should be recognized

on the basis of a difference in causation rather than a

difference in the time of their occurrence.

Brooks, B, and Bialock, A Shock, with Particular Reference to That Due to Hæmorrhage and Reference to Time Due to Hazmorina Surg , 1934, 100 728 Trauma to Muscles Ann Surg , 1934, 100 728 The authors consider two of the various methods

by which experimental shock may be produced These are about as free from complicating factors as any that can be used The first is traumatization of the soft tissues of an extremity, and the second the removal of blood from a large vessel to reduce

Employing the method of traumatization of an the quantity of circulating blood

extremity under general anæsthesia, experimenters have shown that the production of the shock was associated with the loss of approximately one-half of the total blood volume into the injured part This loss is sufficient to cause low blood pressure and There occurred also an increase in the concentration of the red blood cells, a negative response to the transfusion of blood, and capillary congestion and hemorrhage in many of the organs of the body Since the results of experiments indicated so

clearly that the cause of death was the loss of plasma and red blood cells into the injured extremity, the authors believed it reasonable to conclude that similar alterations might be produced by the removal of blood from the body by hæmorrhage to the outside They therefore carried out expenments in which the blood pressure was gradually reduced by the slow withdrawal of blood from the femoral artery under local anæsthesia and the blood pressure was kept at a low level for as long as nonable prior to death. The records in these experiments were culte similar to those obtained when an extremity was fraumaticed

In an attempt to charify scute directatory failure from a physiological viewpoint the uthors dis-

tangulah the following four types

The hematogenic, ie shock characterized by a decrease in the blood volume, vasoconstriction, a decrease in the output of the heart, and subsequently decline in the blood pressure. The simplest example is shock from acomplicated humor rhape Of the same type is shock following tranma to large matters of mostle

. The neurogenic, i.e. shock in which there is a vasodilatation dependent on a decrease of constrictor tone brought about by influences acting through the nervous system. Colleges, or printery

shock is of this type.

3 The vasogenic, i.e. the condition in which the vascular dilatation is brought about by agencies acting directly o the blood vessels Histamin probably exerts the major portion of its effect in this manner

The cardiogenic, i the condition in which cute disculatory fallure occurs as result of a primany disturbance of the heart. This is characterized by remous distention, in contradistinction to the collapsed condition of the veine found in peripheral circulatory failure. This type of elteration is produced by a rapid commulation of field in the pericardul cavity SANTURE KANDE MY D

Henrer, G J and Andres, W DeW : The Effect of Adrenal Cortical Extract in Controlling Spock Following the Injection of Aqueous Extracts of Closed Intestinal Loops. A Serr ass, on

In experiments carried out on dogs the authors found that the intravenous injection of appends extracts of high integrinal loops with fatal obstruction produced a marked primary fall in the blood pressure followed by secondary rise of varying degree which in turn was followed by a more gradual fall to a definit about level

The primary fall in the blood pressure seemed to be die to marked vasochlatation, while the second fall was associated with the loss of planus-like fluid

from the circulating blood

Simultaneous rayection of adrenal cortical extract into the contralateral femoral vem had markedly beneficial effect to lessening both the degree of the drop in the blood pressure and the amount of plasma loss, and in prolonging the life of the ammal after the injection of an aqueous extract of obstructed loop This protective action was destroyed by boiling the cortical extract for one minute

When, an hour or so after the injection of aqueous extract of obstructed loops, an ammal was in a state of profound shock with a low blood pressure and decreased plasma volume, the intraversous injection of normal salese solution, gam-scara Ringer's solution, a o per cont gincom solution, or blood falled to restore the blood presents materially or to present further and serious lowering of the plants volume followed by death.

Extract of adrenal cortex alone was definitely less effective in reviving an animal in this condition, but the administration of this extract according to with transfersion had a markedly beneficial effect. eventually raising the blood pressure to searly the normal level and maintaining it, restoring the planes volume, and preventing subsequent loss of the fold elements of the blood, thereby prolonging ble

SANCER KAPE M D

Allen, E. V. Lymphonderns of the Extremities Classification, Ethology and Differential Disg-nods, A Study of 100 Cases, Anh. Int. 1(s) 1014. ta 606.

It is powerest that relatively little is known bout lymphordens. In a study such as that reported in this article much depends on the accuracy and de tails of the clinical history and examination of the patients. Invariably when the study of patients with a specific condition has been carried out by diagnosticians with diverse interests, too much exphasis has been placed on the diagnosis and too little on the details of the history and the mandestations of the filtress. In the author' study this deliculty was offset somewhat by the fact that in recent years the study of lymphedena at the Mayo Chak has been centralized. It is only by concentrated inoutry that minutie of development can be traced consecutively, and it is only when this is done that facts about the evolution of lymphordena can be

arranged in an orderly patters. The experimental data on lymphordens are confusing, somewhat contradictory and at best isadequate and almost inconsequential lib respect to their worth in the interpretation of chulcal phenomena No condition simulating chronic lymphordems in man has been produced in animals, and the experimental procedures so far executed appear insufficient when compared with those used in the production of venous ordense. Mechanical methods for interrupting the flow of lymph t the root of the key abould be, priori as devoid of results as those for mechanically interrupting the flow of vesors blood As multiple ligations of veins in the man area do not produce venous ordems, it is not easprising that resection of the privic and inguisal rmph results does not produce trapbordens periments producing lymphatic thromboals similar to these producing venous thrombons with venous ordent are necessary Relatively title is known bout the collisteral curvalation of lymph t the Althorn innction of the extremity and the body

all lymph wearts join t the grain and suite and pass along the large blood weeks, it is important to know bout the connection of lymph vessels below there regions with the lymph vessels of the abdominal and thoracic walls and the back. As collateral circula ben of the renous blood may be carried on by collateral channels from the root of the limb to the trunk, it is probable that the conditions as regards the lymph vessels are analogous, especially as there the lymph vessels are analogous, especially as there is an analogy between the veins and lymph vessels

Even the clinical diagnosis of lymphodema is in every other important regard sometimes uncertain, a fact best evidenced by the equivocal parts played by lymphatic and venous obstruction in phlegmasia alba dolens ouscruction in pinegmasia and uoiens tims uncertainty is due to the lack of conclusive tests for certainty is due to the lack of concusive tests for lymphatic obstruction Solution of the problem of distinguishing lymphædema from other types of edema may be found in analysis of the fluid in the cedematous areas, tests of the speed of circulation of the lymph in the extremities, or some method of visualizing the lymph vessels with dyes or by roentvisualizing the lymph vessels with dyes or by roent-gen studies. The author believes that the experimental production of chronic lymphædema would

In conclusion Allen says, that relatively little is be an important step in the solution known about the bacteriological and pathological changes in the lymphædematous extremities, and that the etiology and the mechanism of production of lymphodema cannot be fully considered without the information gained from a careful study of the pathological changes and the bacteria involved

Meillère, J, and Olivier, HR Surgical Treatment of Arterial Hypertension (Traitement chirurgical dechirations of Arterial Hypertensions of Arterial or Arterial rippertension (Francement Chiteria) of de chir, 1934, 44 des hypertensions artérielles)

During the last twenty years considerable evidence has been accumulated with regard to the rôle of the endocrine glands and the nervous system in of the chaocine gianus and the nervous system in arterial hypertension Recently, section of the splanchnic nerves or suprarenalectomy has been done in quite a number of cases Arterial hypertension is not a morbid entity but a syndrome.

Essential hypertension is of two types permanent and parovysmal In progressive permanent hyperand parotysman in progressive permanent hyper-tension there is at first a long period during which little besides the elevation of the blood pressure is to be found This is followed by a period during which signs of functional impairment appear in various organs such as the kidneys, heart, and lungs Parorysmal hypertension may come on at varying in ovysmai hypertension may come on at varying intervals. It is characterized by signs of localized or generalized vasoconstriction such as headache, epigastric pain, dyspnœa, and anginal pain, and is often gashic pain, dyspinea, and angine pain, and is often accompanied by fever The paroxysmal type may

gradually evolve into the permanent type Hypertension may occur during puberty, the menopause, or pregnancy, after hysterectomy, and memopause, or programmy, and myselection, and in cases of tumor of the suprarenal cortex, hypering cases of tumor of the suprarenal cortex and the supra thyroidism, obesity, diabetes, lead poisoning, syphiinviolusin, oursity, universe, read poisoning, sypnitic aortitis, and a variety of other conditions affecting ing the nervous system, vascular system, or kidneys The authors give a brief resume of ten cases reorted in the literature which were treated by secported in the merature which were dealed by section of the splanchnic nerves and thirty-six cases in which suprarenalectomy was performed They divide the latter as follows

1 Five cases of suprarenalectomy for paroxysmal hypertension with ablation of chromaffin tumors of mypercension with abiation of chromanin tumors of the suprarenal medulla or analogous tumors in that Five cases of suprarenalectomy for permanent

hypertension with a suprarenal tumor In three of nypertension with a suprarenal tumor in tumor of these cases there was a diffuse adenoma or tumor of the suprarenal cortex and in two a tumor of the suprarenal cortex with a suprarenal-genital syndrome. 3 Twenty cases of suprarenalectomy for extreme

hypertension in which the suprarenals were normal nypertension in which the supractions were normal or only slightly hyperplastic. In eighteen of these cases there was a permanent hypertension and in

After a review of the results obtained in these two a paroxysmal hypertension cases the authors conclude that suprarenalectomy is They advocate partial bilateral suprarenalectomy rather than operation on only one side

Brocher, J E W The States of Inhibition of the Bone Marrow (Les états d'inhibition de la moelle osseuse) Ann d'anat Palli, 1934, II 585

The author discusses in detail the neutropænic states and the conditions which may give rise to them. He calls attention to the fact that formerly ment. The cans attention to the fact that formerly neutropænia was usually reported to follow either a blood disease or an infection More recently agranulocytosis has been found to follow the use of the X-rays, radio-active substances, benzol and its denvatives, and certain heavy metals. In a group of cases reported there were marked decreases in the leucocyte count after the use of various toxic agents Agranulocytosis and aleukæmic leukæmia in the

end-stages of inhibition are considered to be the results of an insufficient reaction of the bone marrow with a consequent diminution in the defensive forces of the hæmatopoietic system to infection. Brocher regards agranulocytosis as the expression of a deviated or unfinished phase of a normal biological phenomenon

Changes in the Cell Picture in the Bone Marrow in Infectious Diseases and the Origin of the Toxic Granulations in the Neutrophile Cells in the Circulation (Modifica-Patrassi, G zioni del quadro citologico midollare nelle malattie nom un quanto cicologico imagnate non maneta-infettive e genesi delle granulazioni tossiche dei neutrofil circolanti) Sperimentale, 1934, 88 354-

The object of the investigation reported was to determine whether the toxic granules of the neutrophile cells in infectious diseases originate in the bone marrow or in the peripheral blood A study was made of the bone marrow of sixty-two individuals who had died of infectious diseases In the cases of eleven of these individuals toxic granulations had been discovered in smears of the blood during life To serve as a control, a similar study was made in fourteen cases of non-infectious diseases smears of the bone marrow were stained with the stains that are specific for the granulations studied the methods of Mommsen, Hirschfeld, and Freifeld. Immesture cells of the gran locyte series precombasted over the other types of cells, with many my decytes and a smaller number of metoblasts. There was a marked abundance of immature saruphile granules in the myclocytes and even in the metaryrelocyte and the neutrophiles with red mortel, which indicates rapid and incomplete maturation of the protoplasm. On the other hand, serlated the complete was run and true travegranules were spin larger and contained only in some of the latter cells.

The author therefore concludes that the toric granules do not originate in the hope marrow and that possibly in the examinations of hone marrow made beretolors immature astrophile granules were confused with true toxic grapules. He resurds it as probable that there is my elogmous factor in the production of these grapulations to the extent that immature cells enter the circulation during the course of infectious diseases. He states that this is indicated by the shifting to the left in the leucocyte nicture and the asprophilis of the neutrochiles both in the bone marrow and in the circulating blood. The neutropinie granules of these cells are i netropally weaker than those of mature colls. Under the action of the toxing their reactive capacity becomes an hausted and they undergo a retrogression character ized by intense beauthius and finally become true totic granules A DEST GOES MORBAR M D

Jarre, H. A., and Cumming, R. E. Pyeloperistalsis Characteristically Altered by Infection, with Notes on the Functional Behavior of Other Hollow Vicera. Raising, 1934, 3, 209

The authors state that reentgenological record ig and evaluation of fenences granefly do not receive the treation they deserve. Particularly in connection with the authory possings, very little study has been devoted to them. Excretion pyriography penens new opportunities for mesages stedy with evidance of wines of the fillatons associated with reidence of wines of the fillatons associated with the retrograde method in which necessary true station and applyanological procedures frequently led to fa fit procedurious.

As preliminary the report of their lavestigation the extinon document was length our present laves ledge trop reporting the muscle these to the unitary transportation terms and call attention to previous lineating tions made muscle process in their of injected fluids by the retrograde process. In their own mentiogrations they employed the serval reporting the previous property of the property raphy the various needs. They medical in their extinct several preliminary made by the retrogradmation to those the differences better used a retrieval of the preliminary than the preliminary of the mention of the preliminary transition to the preliminary of the retrieval of the preliminary transition of the preliminary of the retrieval of the preliminary transition of the preliminary of the mention of the preliminary transition of the preliminary of the prelimi

The recharge used is obtaining the romtemograms is described in detail. Series of asymmal of rathologoul py-dograms are presented to show repier and abnormal persualtic cycles traversing the values result segments. The motor phenomena are regarded by the author as analogous to the gradients of peristalsis conceived of by Alvarez in connection with rhythraidity initiability latent period, tone, muscular strength, and metabolic rate for the gastro-intestinal tract.

The a thora andlings are summarized as follows I. A rhythmic, progressive, descending properistakin of the normal renal pelvis is demon-

strated by fast serial prelography

s. This is different from the alternating type of renal peristable described by Legous, Fey and Truchot, which is considered to be the result of applysiological or pathological conditions, but seems to occur regularly with any instrumental or lefer thou distributed in the refinery tract.

3 P) conceptuits produces a characteristic after ation of py cloperistasis ranging from alternating peristasis through inhibition to complete organe immobilisation, depending on the type virulesce, detration, and location of the infection and the

ction between the infecting agent and the host
4. The characteristic functional effect of low per-

ureteritie is shown by properistable and antiperistalife in the upper wreteral segments

Analogies and characteristic differences in the functional behavior of various hollow vincers are briefly removed and reference is made to pervise publications along this line, especially with regard to provochial peristalists in health and certain decrease conditions.

Another literatus, M D

Benostt, T. Li Geo. Discress Lauest, 9,4, 7,700. Geo s disease, which was described by Geo as a curdiac affection, has been designated also as "montropacial aprise" and 'kliopathic statorrions. Benett reports the cuse of a grid dying at silenteen years of age who had had the condition all her his. If then discresses the main features of the desease on the

heals of this case and cases previously reported. Steetorthers in characteristic Austynia of the faces in seven cases aboved that more than but of the control of the contr

In the treatment the diet should be as free from the as possible. Large dones of tron and calcium has e a good effect. Liver extract is of value for the merrocytic type of anomia. In cases with extensive gas formation from the dietary starch relandantase is beneficial.

Paul Sr sa, M D.

Raberts, S. R., and Kracke R. R. Further Studies on Granuloperula, with Report of Taxim Cases. Ann. Int. Med. 934, 5. 29

Twelve craes of cute, complete granuloperate are reported. Attention is called to the fact that six of the patients were lean, pule, authenic nomes with little reserve Of the cleven patients who died, two died in a second attack and one in a third attack Only three of those who died developed a leucocy tosis Only three of those who died developed a leucocy tosis after the granulopænic attack. Treatment by irradiation, transfusion, and the administration of liver extract, pentose nucleotide, and foreign protein was disappointing Adenin sulphate was not used was unsuppointing ruenin surpliate was not used as the authors see no reason why it should be of aid as the authors see no reason why it should be or and. The objectives of treatment are the maintenance of life and strength by general measures and stimulation of the bone marrow. The latter is apparently impossible by any known drug or specific measure After necrosis and sepsis in two of the reported cases the authors observed a rise in the granulocytes from none to 25,000 and 40,000 respectively in four days. They believe that sepsis and necrosis are the chief desiderata in every case of complete granulopenia, and that it is well to avoid surgical treatment of the necrotic areas For cases with no evidence of sepsis necrouse areas for cases with no evidence of sepsis and necrosis they suggest the injection of living staphylococci into the skin or the intramuscular administration of from 5- to 10-minim doses of turpentine Their patient who survived was treated

The authors use the terms "complete granulopana" and "incomplete granulopæna" to distinguish with injections of turpentine the rare disease from the frequent disease evolution of the condition is divided into five stages, viz, selective bone-marrow failure, a gradual de crease in the granulocy tes in the blood to complete or near complete absence of these cells, the development of clinical symptoms, sepsis, and, finally, an increase in the number of granulocytes or death The granulopemas have been classified into ten types, of which acute, complete granulopænia is one types, or which acute, complete granulopema is one A low granulocyte count is not proof of itself that the disease is granulopenia since a low count (leucopænia) is characteristic of certain infections and may occur in association with others. One out of every four patients may be expected to have a mild granulopænia According to the literature, agranulocytosis is of world wide distribution. However, most cases have, of course, been reported from centers in which the blood count is a routine procedure The disease may occur at any age, but is most common in middle life Its cause is unknown. It is rare to see a case without a hæmorrhagic tendency The manifestations of the latter vary from hamorrhages seen only at autopsy to a condition simulating The acute, incomplete granulopænia is commonly far milder than the complete form As long as granulocytes remain in the blood there is probably some my elocytic activity Good nursing, probably some my clotytic activity Good nursing, food, and water, fresh air, and a watchful, expectant attitude may be all that is advisable. The tendency in the care of patients with incomplete granulopænia is to do too much

Becker, S. W. Melanotic Neoplasms of the Skin

Modern pigment study carried out mainly by means of the silver and "dopa" reactions shows that

at the junction of the epidermis and dermis there are specialized cells which are capable of forming pig-The first sign of pigment activity in the embry 0 is the positive dopa reaction in a branched emoryo is the positive dopa reaction in a branched cell in that location This is followed by the appearance of melanin granules in the branched cells and ance of metallin granules in the pranctice cens and later in the palisade basal cells. The pigmentforming cells are called "melanoblasts" in contradistinction to phagocytic dermal cells which are called "chromatophores". An increase in the number of melanoblasts at the epidermodermal nunction results in a smooth brown nævus junction results in a smooth brown masses of pale-elevated navi the dermis shows masses of palestaining cells which are similar in staining properties and pigment content to the epidermal melanoblasts and are thought to be derived from the same source and are thought to be derived from the same source. The source of melanoblasts is not definitely known, but more and more workers are accepting the theory that these cells are of nervous origin. If melanoblasts are located deeply in the dermis a blue nævus or Mongolian spot results The distribution here is or mongonian spot resurts—the distribution here is essentially the same as that in the blue skin of the

Pigment activity due to irradiation by ultraviolet or alpha rays consists of prominence and branching of melanoblasts followed by hyperpigmentation of palisade basal cells Pigment activity occurring spontaneously with no demonstrable cause results in the same histological picture. The resulting lesion, tne same mistological picture the touriship to the com-known as "lentigo," has no relationship to the common freckle known as "ephelid" If this stimulation of pigment activity increases to the point at which or pigment activity increases to the point at which melanoblastic proliferation occurs, the lesion is already a flown as "lentigo maligna" and is already a malignant melanome. malignant melanoma Further activity results in a melanoma of either the fusiform cell type—the socalled melanosarcoma—or the ovoid-cell type—the melanocarcinoma The occurrence of both types of cell in the same primary or metastatic growth demonstrates the futility of trying to classify demonstrates the number of trying to the melanomata as "sarcomata" or "carcinomata" The best designation is "malignant melanoma," The melanoma arising from a pigmented nævus has its origin in the melanoblastic cells at the epidermodermal junction and not in deeply lying nævus cells

"Melanotic epithelioma" and "pigmented epitheas has been sometimes supposed. liona" are terms used to designate a benign epidermal neoplastic tumor containing considerable melanin Lesions of this type are closely related to the so-called senile or seborrhæic verruca and almost never undergo malignant degeneration. In a study never undergo manguant degeneration that 33 per of cutaneous carcinomata it was found that 33 per cent of the basal-cell tumors, 14 per cent of the intermediate-cell tumors, 9 per cent of the mixed-cell tumors, and 7 per cent of the squamous-cell tumors contained melanin demonstrable by the silver technique The pigment in these tumors is due to the presence of melanoblasts which cannot be distinguished from normal melanoblastic cells on the basis of the type and arrangement of the melanin granules In rather unusual cases carcinoma of the

INTERNATIONAL ARSTRACT OF SURGERY breast which has invaded the aim is intimately press; which has invaced the arm a minimate, associated with metapochiastic cells which are normal

Gorme da Costa S. F. The Action on Certain Substances The Costant Invocation on Certain Substances The Costant Invocational Costant Co Substances That Cause Ilypositycamia (Argo ministrances | Aut. Carnes | Dispulsivamente (Activa des Abstractis bioofficermentes Mira certos processos (cinemistros de (etcle becplistes))

Wy thing showed the important part played by carbohydrists in the metabolism of ciner played by the control of carpooyurates in the memorates or cancer transce are many similarities in the changes of metab. American many summarizes in the countries of metabolism in diabeter and cancer. The effects produced out on the same of the control of of the c by manual in computer and concer are very summer to times produced by rational in cancer these races tack fed the author to make a study of the effects proke the subsection to make a story or the circus pro-deced by substances that cause hypothycemia on decen by substances that cause hypothycenus on carbony drafe metabolism in tumor theory. From

critical date metabolism in times theory. From this insertion is draw that the fallering conductor. I have been consent or the fallering conductor of the fallering conductor of the fallering conductor. I have been consent of the fallering conductor of the fallering conductor of the fallering conductor. complete disappearance. In animals painted with compacts disappearance in summes parases say institute retards the development of tumor. Animale with cases, are more tangeness to tumor with men with corest are more remained to the ectator of Instille than normal animals. Both inge doses or mann man normal annual room that the state of the state narrant sim cump passes occasis a growing that can be properly conducted a mineral model. This substance is more considered in times dissued than in normal fiscal as more abunquest in tumor tumors than in sevenes, therein a sevene to low concentration, prevents the development of culture both of normal and the development of cultures both of pormal and companies. Cancer these is more sensitive to timest passes caucit times a name sensitive to this action than normal timeses. Very work concen-trations of makin may favor the development of cultures of tumor theores

Insula increases the consumption of phocose in cultures, particularly when it hability their development. Both stable and shake shoose can be ment noth status and ansatus sources was a demonstrated in the blood of persons with exact. removation in the parout of persons who cancer.
The amount of the latter is less than the amount in And amount of the latter is the trast the amount in the normal mood and greater to an the amount on the blood of diabetics. Possibly bardin cruses the throat or distortion from my fraging cruzes the production of utrially product on the blood of t persons of claster out the is seen tour and one the blood of clasterios. As in normal individuals, the oxon or matters. As in matter than a sure and person is found in the sering of disbetics and person gracese is found in the servin or contracts and persons with cancer not in his colloidal form, but in solution when taken her the consequence force, our in sources of the find the proteins of the find the proteins of hormal rabbits in some layers of hormal rabbits in the find the find

and goes of the hyberthoenie, and to faile goes Ameni come catern opportunceron, and to some come, hypoglyceron: After irradiation of tumor in dops a) happened constraints and hypersystems of those is hypersdrens/memic and hypersystems to compare in normal or diabetic dop and man irradiation In normal or dishere dops and man irradiation comes hyperaturents and man irradiation follows by hyperaturents and preparaturents are hyperaturents as the property of the pro Erromento in coomes returnes inc percentage of extraores in mice de-Proper to change among remains to make the creases as the development of the time, properties.

This is true of the property of the fiver which is a constant. that is the of the groupen or the first sector a smaller in amount than tumor glyrogen. Littletton

of tumor-bearing animals causes a decrease of or tuner-nearing someth causes a decrease of gyroogen coun in the tumor and in the area in the tumor is insalisted directly there is a more market transfer a transfer overly there is a more number of efforcing of proper in the transfer that in the brown on the large k immerted of the contract of the cont It netters the times nor the layer is immunitied as receive the decrease of givengen is greater in the incre

an to the with adenocateinous the tojection of to mer with successful a decrease of proper in the times and particularly in the liver in smeath and the cases begin does not faither the symboth of hate causes means used not retrost the symmetric on the liver as it does notice average on gyrogen in the aret as n does above normal conditions. The percentage of lactic acid in the things and blood a much higher in persons with cancer than and blood as much nigher in persons with cancer can-in normal individuals. The nest abovem of the cancer to normat matrixinas and normations of the cancer of its partly a metabolism of oxidation and partly a cen as parry a metaporous or curculate and parry a metabolism of termentation. Anatomic gymyris is the only known metabolic function which is consupply air prisms too a received a received a received to the contract of the contract and the contract of the contract and the contract of th pathog with interest profileration of times calls inself a when very greatly defined of times calls in an experience profileration of times calls in the contrast profileration of times of times the call in the er concentrations our case imparation and increase styrolysis. With still stronger concentrations the

action is reverse.

The reducing power of tumor these is prestir than that of normal numeric thane. Given those case is that or normal in man and article with cance. me than normal in man and amman who coordinately increases granthionerink in admais with manny mercanes puramonerous or success was tumor. The action of familia, grandles, morphise. tunes for action or treatm, granton, normans, and codes on the redecing capacity of music is and coom on the reasons capacity or more a stimulating or paralysing depending on the consummaring or parasysting depending up to a onecrutation. Increase and occrease alternate is the concentrations increase. This is true also in transcr tons untraces increase. This is true the in times the figure which seems to be force sensitive to these sensitive to these contracts the force in the figure in the figure

The local application of insulin in the proper dome brings about cleatranties of emerges are proper of the skin and retrogrammen of tumor times. Other or the ten and recognished or range concerning which come by Polycomic, such as Swithing A and B Boophie, coden, greating systems A and a morphism, there are extracted of galery, may also care organism, and sensed or gauge, may an own constitution of emotrons observed the airh is proper Conservation of Concessions of the action of proper of the action of proper of morphiles, strontaming, and proper of the action over the product of t giveria in immor timbre i ne stitulosis or opinio which do not came hypostycemia do not have ary effect on skin cancers

Recongress ray irradiation to dense of from 1,500 to 1,600 Chine only applicant and opidermal designants.

To of the rabbit. Does of from Jaco to 4,000 7 Cities exact to the crites those or from your and the control is propored. but at rale describe does not read: If impain is upposed occally lat the normal skin of the rabbit moore receipt int the manual seas of the ince-after epiletion, all of the skin reactions to receipt tradictions appear earlier and are more pricesses There experience descriptions are more increased of the thing that has been treated with insufficient than or toe taign that mit occurrence with manin man, in the akin of the thigh that has not been so mented.

The believing of finalin does not remaiting the skin of An appearance of manufactures are resource to a manufacture for the action of receipting ray.

Insulation decreases the oxida theoretically copacity of the muscles and particularly that of tener

tissue. Irradiation of muscle by roentgen rays in vitro with a dose of 300 r increases the oxidationreducing capacity of the tissue, but this has not been confirmed by irradiation in the Insulin intensifies the action of roentgen rays on the oxidation-reducing the action of roenegen rays on the oxidation-reducing capacity of muscle and particularly on that of tumor tissues except in cases in which a very strong or a very weak dose of insulin in itself increases the oxidation-reducing capacity

Cumetances the association of making the latter circumstances the association of the latter circumstances are considered in the latter circumstances and the latter circumstances are considered in the latter circumstances and the latter circumstances are considered in the latter circumstances and the latter circumstances are considered in the latter circumstances and the latter circumstances are considered in the latter circum ounstances the association of insulin and roentgen rays seems to increase the oxidation-reducing capactays seems to increase the oxidation-reducing capacity of muscle, and particularly tumor tissue, still further Ulcerated tumors of the skin which are resistant to irradiction do not heal readily under the local action of insulin, but preliminary application of insulin overcomes the ridioresistance and intensifies the action of the rays to such an extent that the ulcers can be healed by one-half or one third of the dose of irradiation that proved ineffective before Ulcers which often give rise to malignant tumors may be healed by the local application of insulin

# Casey, A E The Experimental Alteration of Malignancy with a Homologous Mammalian Tumor Material I Results With Intratesticular Tumor Material I Career voice of the Manual Incompletion Am I Career voice of the Manual Incompletion and the Manu Inoculation Am J Cancer, 1934, 21 760

Many investigators have reported that the injection of devitalized cells from embryonic, mammary, and tumor tissues will increase the susceptibility of rats and mice to tumor transplantation or rats and mice to tumor transplantation. I his "manuring of the ground" was brought about by manuring of the ground was prought about by injecting an emulsion of the devitalized cells subcutaneously ten or fifteen days before the tumor The action of the materials was estimated from the effects on the primary tumor The occurrence of metastases and phenomena of true inoculation

In the experiments reported by Casey the effects malignancy were not used as criteria. of the parenteral injection of a homologous tumor on the parenteral injection of a nomorogous tumor material two weeks prior to tumor inoculation were studied in relation to the growth and malignancy of the Brown-Pearce rabbit tumor Groups of rabbits injected intratesticularly with this material and injected industrial and inoculated with the tumor two weeks later in the same or the other testicle were compared with control groups inoculated with the tumor only During a period of two months the material did not of itself produce a tumor or any evidence of an inflammatory tissue hypersensitivity in the testicle However, it was found to alter the course of the malignant disease in the direction of increased malignancy was observed not only in the incidence and the size of the primary growth, but also in the incidence, number, size, and distribution of the metastases The time of occurrence of paralyses and the length of life of animals dying from the tumor were definitely shortened and the mortality from the disease

The nature of the substance concerned is still unknown, but evidently the substance is not present was increased in fresh and actively growing tumor tissue in an

active form or in such tissue is associated with a substance or substances capable of masking or supsubstance of substances capable of masking of suppressing its activity. It is present in tumors which pressing its activity it is present in tumors which have been removed from animals and preserved for a period of ten days or more and in tumors left undisturbed and preserved in the animal body time required for its development or activation and the time during which it persists in an active state in preserved tissue are still unknown, but expenments have shown that the active agent is separable ments have shown that the effects produced by from intact cells and that the effects produced by non mean cens and mar the enects produced by emulsions of preserved tissue can be obtained also by the use of desiccated material and cell-free filby the use of desiculted material and centree intrates of such emulsions trates of such emulsions active material has been obtained from a tumor of the same kind and not from any other tumor or tissue It is therefore a strictly homologous material With reference to the action of this agent, the

author points out that, so far, there is no evidence author points out that, so far, there is no evidence that the injection of the material produces a local sensitization. The effects are general rather than local Moreover, they are not transient but enduring, a fact constituting additional evidence of the profound systemic action of the material over, experiments with mouse tumors have revealed the existence of at least two other homologous tumor-enhancing materials, one present in a mouse sarcoma and the other in a mouse carcinoma, each of which differs both from the other and from the

rabbit-tumor material

The Experimental Alteration of ey, A E The Experimental Alteration of Malignancy with Homologous Mammalian Tumor Material H Intracutaneous Inoculation of Preserved Material Am J Cancer,

Experiments were carried out to determine whether a homologous tumor material which enhanced every observed phase of the rabbit tumor following intratesticular inoculation would have a similar effect following the intracutaneous inoculation of the Brown-Pearce rabbit tumor into the flank Groups of rabbits which received injections of the material in the skin of the flank and inoculated with the tumor in the same or a neighboring area two weeks later were compared with control groups subjected only

The results in the control animals confirmed the previous observation that the rabbit tumor which to tumor inoculation is malignant following intratesticular inoculation is a spontaneously regressing, non metastasizing growth following intracutaneous inoculation into the flank, However, in the experimental animals which had been treated with the homologous material more rapidly growing and persistent local tumors occurred more frequently Moreover, distant metastases were discovered in a large percentage of the animals Therefore, in enhancing both the primary and the metastatic phases of malignancy the preserved material is not dependent upon intratesticular moculation and is able to overcome the natural resistance of the rabbit's skin to the tumor

action of this material was not affected by sex or immaturity

During the observation period of tamonths there was no evidence that the preserved material will of Itself produce tumor growth. After from four to ten days no pelosbie lesson remained at the site of the injection of the preserved material and the animals showed no clinical signs of illness or an infectious process. An injection of fresh tumor tissue followed two weeks later by a second inoculation of bying tumor did not result in more mellement course of the disease. Therefore the absormeron of enhancement is not due to the completive effect of repeated doses of tumor tissue, but must be explained on some other basis. Berkeleld & filtrates of the preserved material have the same potency as the unfiltered emulsion. JOSEPH K. NAMAT. M.D.

Price, L. W. Metastrais in Squamous Carcinoms.

Am. J. Cancer. 234. 1.

With the possible exception of those in the local lymphatic giands, escendary deposits of squamous actrenoma are somewhat rare. The problem as to what factors determine their development in one case of squamous carcinoms and their absence in cinncally similar case has not been satisfactorily solved.

In a series of 158 consecutive utopries carried out the Glasgow Royal Cancer Hospital in cases of spetasons cardrooms of various regions of the body the primary site and the sites of distant metastases were found to be as follows

	Total super	Company
Tougue Floor of mouth	40	6
Floor of mouth	17	
Lip Fauces and pharyex	7	
Fraces and pharyax		
Laryux (Zeuphague Valva	,	
(Zemberne		4
Valva	1	
Carely atted	,	,
Penns Skin Kuml dant	4	
Skin	7	
Namel short		
	- 18	79

Price reports difficial study regarding the possible ethiogens relationship to the development of mensature of () the patients say, see, and general condition, () this distration of the disease, (s) the stre of growth of the primary tumor (s) the interval between the appearance of the primary tumor and the development of mensatures, and (s) the degree of detructions of normal turner. His findings and conductions are estimated as follows.

relationship between the clineral and pathological findings indicates that there is no correlation between the clinical condition of this patient and the development of distant metastases

s. There is no constant relationship between the site of the primary tumor and the site of the distant metastases. The most common sites of metastases in the cases reviewed were the lungs ( 3 cases) the liver (7 cases) and the kidners (5 cases).

3. In a sider study of the development of metatases from numerous primary tamons of values types, the only definite includes are that temon arading in certain primary sides have a tendency to from metatases in certain tissues and that there is peculiar relationship between the side of the pimary temore and the sides of the secondary representance.

JOHNS K NAMAT, M D

# DUCTLIESE GLANDS

Davia, L. The Ralation of the Hypophysia, Hypothalamus, and the Autonomic Nervous System to Carbobydrate Metabolism. Am. Say.

right, ree 644. In an tempt to explain some of the wagstee of disturbed carbohydrate metabolium in case of disturbed carbohydrate metabolium in case of the tempt of the carbon of the hypophysis and the related structures, the author carried out three acids of experiments on cair. In the first acids the pencrise was removed and later the hypophysis was disapped with the Handy-Charle stereotatic persists. In the encoud series the includes were produced in the populations so that the bryophysis was street, and the puncress was then removed. In the blift section street, and the puncress was then removed. In the blift section street, and the puncress was then removed.

the autonomic nervous system

In the one animal of the first series that survived the operative procedures there was no ensuing evidence of dishetes. The needle had entered in the midline, passing through the third ventricle. The lesion destroyed a segment of the auterior lobe of the hypophysis and small part of the pars pervota, and had canced allebt damages to the para tuberals. The tafundabulum seemed to be at least partly blocked by scar tiene, and the pars toberals was shahily avoertrophied with soire greatly distanced by colfold. The postootic commissions, the ventral perventricular modes, and the gray substance of the tip of the tuber fast rostrad to the infundibulum were damaged or entirely destroyed. In the light of the work of those who believe that the products of hypophysical secretion pess from the pars intermeds by way of the taune spaces in the pare nervous to sumohate the tuberal and other anterior hypothelamic seclei, it was interesting t note that in this autoal the infundabulum as partially blocked and the space separating the pare intermedia from the anterior lobe was distended and contained a large amount of homogeneous material. It has been suggested that as result of nervous impulses from the hypothalamic midd, ripened secretory cells are cast off, isvade the pars nervose, and become hyaline bodies which make their way through the para persons toward the infundabalar cavity

I the second sense of the author's experiments it was found that in the animals which servived the pancreatectomy following the hypothalamic lakery the hypothalamic lesions were pieced so that they involved the region of the forms and affected the performed nuclei. They were situated in the tuber cinereum, where their position was slightly rostro dorsolateral to the mammillary bod es. It is at about this level that the ventroniedial hypothalamic nucleus lies. The lesions in the animals which did not survive the parcreatectomy did not seriously affect this region or left it entirely unscathed on one side of the hypothalamic. The evidence indicates that the hypothalamic lesion must be not only in a given area, but also biliteral and symmetrical

Stimulation of the superior curvical s impathetic ganglion or the stellate ganglion results in elevation of the blood sugar and glycosuria, but in the author's experiments in which hypothilamic lesions were produced such stimulation did not result in glycosuria. The conclusion is drayn that the glycosuria is the result of the stimulation of the hypothilamic nuclei by the hypophyseal substance which in turn results from the sympathetic stimulation.

Jone Union Letter M.D.

# Fillson, I. T., and Wolfe, J. M. The Effect of Castration on the Anterior Hypophysis of the Female Rat. Ind. caredocs, 1934, 18, 585.

That, in rate custration leads to an increase in the relative number and the size of the basophilic elements of the anterior lobe of the hypophysis a high become modified and give rise to the so called castration cells appears fairly definitely established However with regard to the changes in the co inophiles there is no consensus of opinion. Therefore the author-studied the effects of distration in male and female rats at de inite intervals after castration These studies were both quantitative and qualita tive. Differential cell counts were combined with an anal six of the morphological changes. The work vas controlled by observations on 40 normal female rats, and due cognizance was given to the studies (Wolfe and Cleveland) on the histology of the anterior lube of the hypophysis of the female rat in relation to the cell types

The results of the study of the hypophyses of 100 female rats from which the ovaries had been removed from tive to tive hundred days previously were as follows

I rom five to tifteen days after castration the cells of Type 3 often exhibited a granular loss. After this time they rapidly increased in size and became packed with granules which stained deeply with aniline blue. At about the thirtieth day after castration, large colloid vacuoles appeared in these cells and typical 'signet ring' castration cells were observed. In thirty day castrates the average percentage of these cells was 14 2 as compared with 4 6 in normal non castrated females. I rom the thirtieth day after castration there was a gradual decrease in the percentage of the basophilic elements.

In animals castrated for thirty days, the percent age of castration cells was low (0.9) Thereafter, the

number of these cells increased rapidly. In animals eastrated for one hundred eighty days their mean percentage was 13 o per cent. During the same period the percentage of cells of Type 3 decreased.

During the first sixty days of castration there was a moderate increase in the percentage of cells of Type 1 (cosmophiles). Later, these cells tended to decrease in number

There was no morphological change in the cells of Type 4 (chromophobes) after castration

Colloid accumulated in the residual cleft following removal of the ovaries A. F. I. vsn., M. D.

# Aitken, R. S., and Russell D. A Case of Simmonds' Syndrome I arce', 1934, 227, 802

The authors describe the chinical and pathological features of a case of Simmonds syndrome—the syndrome of pituitary cachesia—which appeared after destruction of the pituitary gland by hamorrhage and a chromophobe adenoma of the anterior lobe of that gland

Samere Kann, M.D.

# Bratton, A. B., and Field A. B. A Case of Simmonds' Disease Junces, 1934, 227-806

In the case reported by the authors a long series of pregnancies was followed by progressive weakness and debility, amenorthous, loss of pubic and avillary hair, headache, vomiting, anorexia, and a subnormal temperature. At one time the symptoms suggested a mild degree of hyperthy roidsm. Autopsy disclosed lymphadenoid inilitration of the pituitary gland, destruction of both the anterior and posterior lobes of that gland by fibrosis, and atrophy of the other endocrine glands and other organs.

Unusual features were the absence of obvious wasting and the destruction of the posterior lobe of the pituitary gland by the fibrosis. However, cachexia vas not invariably present in the cases of Simmonds disease previously reported. When the anterior lobe of the pituitary gland is destroyed by fibrosis the posterior lobe almost always escapes.

SAMUEL KAIN M D

# Grasso, R The Possibilities of Local Injury to the Tissues from Injections of Adrenalin and Adrenalinized Solutions (Sui possibili danni locali delle iniczioni di adrenalina e delle soluzioni adrenaliz zate) Arch ital di chir., 1934, 37 1

The lesions resulting from the parenteral administration of adrenalin range from simple non microbic necrosis, which is most frequent after the use of adrenalinized solutions for hypodermocks or in filtration anesthesia, to fulminiting gaseous or gangrenous phlegmons following the intramuscular injection of such solutions. The thirteen cases of lesions of the latter type which have been reported obviously represent only a small percentage of the total number. Grasse has recently observed three cases of gangrenous (py ogenic) phlegmons.

In this article he reports a number of experiments—apparently the first on the problem—to determine the relative importance of adrenalin per se and of

bacteria in the production of such lesions. A phicamon was never produced by the mechanism of endogenous infection (the production of a bacillarmia Inlies ed by the intramuscular injection of adress in) When intramagentar injections of infected solutions of adrenalm were given, abscesses were produced in So per cent of the experiments in which taphylococci ere used, gaseous gangrene in oo per cent of those in which the becaling perfringens was used, and molet gangrese in 70 per cent of those in which the bacillus of malignant ordens was used Control

tests with similarly infected solutions of various ther drugs were negative. Even more beauty contaminated adrenally solutions injected into richly vascularized organs such as the tongree and myocardium never caused phlermons, and in thenes of the ear or leg rendered hyperemic by a sympathec

tomy they produced only mild lesions

Sterile advensifin solutions did not cause local lesions but contaminated adresslin solutions often caused immediate death with the picture of acute polynomary orderes when given in less than the lethal dose. Sterile drenatin solutions from flasks (the type for general surgical use) always caused extensive non-progressive necrosis. Adversallaised salt or glucose solutions for hypodermoclysis never prodocted pectods.

The favorable influence of adrenalla on bacterial growth is due to its vasoconstrictive action which retards absorption and decreases local defenses Possibly there is also concomitant toric action.

The presence of becteria retards absorption than increasing the deleterious local effect. Stenie stires allis passes quickly int the deculation, causing so local damage but overwhelming the heart.

Clinically concernitant factors such as conditions which reduce local resistance and such as the tendency toward alkalinemia and disturbances of the sympathetic serveus system is brouched asthma, are of more importance than contamination of the eal three

From his findings Grasso concludes that any substance injurious to the tissues or having a apconstrictive action should be injected very slowly with the most acrupulous prece tions for eachers and that afterward the site of the injection should be managed energetically nd but attribut should be applied for several hours. When the peripheral circulation is precarious, adressas aboubl eather be avoided or given lattra enough. For tafiltration anesthesia, adrenalis preparations of the hypodermic type should be used Adrenalished solutions abould not be employed in conditions known t favor necrosis The only preventess of endogenous infection is, possibly the voldance of adrenalls in the presence of an acute intestinal deturbance. The physician should not be held responsible legally for the occurrence of adressilla gangrene

The author's cases and experiments are reported in detail. The article contains illustrations and is supplemented by an extensive hibliography

M E Monn, M D.

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# INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1935

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK 10 Neurological and ophthalmological examina-

#### HEAD

Fractures of the Connors, J F, and Wright, L T Skull Ann Surg, 1934, 100 996

The authors report their experience in the treatment of 1,760 cases of cranial and intracranial injuries They divide the cases into 3 groups The first group, consisting of 497 cases, was treated in the period, with a mortality of 52 I per cent The second group, consisting of 336 cases, was treated in the period from 1925 to 1927, a period of con servative treatment, with a mortality of 45 per cent The third group, consisting of 927 cases, was treated conservatively in the period from 1930 to 1934, with a mortality of 21 7 per cent. The authors with a mortality of 21 7 per cent.

routine diagnostic procedure includes I Careful elicitation of the history if this is

2 X-ray examination at the time the patient is admitted to the hospital unless he is in shock. possible

- 3 In the cases of all unconscious or seriously injured patients, an immediate examination by a member of the visiting staff, day or night
  - 4 An immediate lumbar puncture and a cell
- 5. A lumbar puncture and cell count of the spinal count of the spinal fluid fluid from eight to twenty four hours after the initial

Study of the patient for the development of

7 Determination of the pressure of the cerepresumptive signs and symptoms brospinal fluid (The authors state that while they do not consider this of much diagnostic importance, primary hypotension of the cerebrospinal fluid makes the prognosis grave in cases of proved injury) 8 A white blood cell count, urinalysis, and Was-

sermann tests of the blood and spinal fluid and, in the cases of unconscious patients, a complete chemical study of the blood with particular attention to A careful examination for associated injuries the blood sugar

The authors advocate the usual methods of con-

servative treatment, emphasizing the importance of (1) giving the brain a chance to stabilize itself tions before more hæmorrhage is produced, (2) maintaining the fluid balance, (3) maintaining nourishment and preventing starvation acidosis, and (4) preventing pneumonia and meningitis

They conclude that the treatment of intracranial pressure in cases of acute cramocerebral trauma by subtemporal decompression operations, intravenous injections of hypertonic glucose solutions, and lumbar drainage earlier than six or seven days after the injury is unwise and should be abandoned. They beheve that in an occasional case of high intracramal pressure the delayed intravenous administration of hypertonic solutions of glucose with delayed lumbar dramage may be beneficial when the active bleeding has stopped and is not likely to recur as a result of the reduction of the intracramal pressure ROBERT ZOLLINGER, M.D.

Dill, J L, and Crowe, S J Thrombosis of the Sigmold or Lateral Sinus A Report of Thirty Arch Surg, 1934, 29 705

During the past twenty years only 30 cases of ottic sinus thrombosis have been treated at the Johns Hopkins Hospital although an average of 15,000 patients with diseases of the nose, throat, and ear are seen each year in the out-patient department. An analysis of the symptoms and end-results in this group shows clearly that each patient must be studied individually and that no dogmatic rules for either diagnosis or treatment are justifiable

Of the 30 patients, 16 were children under fourteen years of age. One patient was one year and another sixty-four years old The syndrome of chills, a septic temperature, and a positive blood culture are often absent It was present in only 6 (20 per cent) of the cases reviewed As a rule the blood count is higher in children than in adults. In I of the reviewed cases white-cell count of 5,800 was associated with a temperature of 106 degrees F in count of \$,700 with a temperature of oa 8 degrees F a positive blood culture, and mentogith and in a third, that of a nomen forty-six years of age who recovered, a count of 9,500 with a temperature of 104 degrees F and so colonies of bemoivile streptococci in the blood culture. The hemolytic streptococcus, the organism most commonly present in the blood in cases of ctitic thrombooks, was found in so per cent of the series A culture from the martoid or middle car may give no indication of the organism is the blood stream because the staphylococcus or other organisms fre quently present in this location overgrow and prevent recognition of the hemolytic streptococcus. In procomplicated cases the general direction of the temperature curve following operation is toward normal. The most common causes of a continued septie temperature are secondary abscess and poeumonia In 4 of the cases reviewed transfusions were given. The authors believe that they are of decided value providing precautions are taken to prevent severs systemic reactions.

There were to deaths in the 50 cases reviewed, a mortality of 33 per cent. Of the so patients who recovered, 5 fad pain, redness, and swelling around one or more of the joints 2 had an isolated abacem of the muscles of the lens and had nontroomis

core or now of the solution had an leadated absence of the muscles of the large and had personned in the joban Hopkins Hopkins

Krohn, G. The Treatment of Fractures of the Neck of the Mandish, Especially in Children, and the Results Obtained in a New Ones (De-Brhandlung von Fracture cells mandichelle became be Kindern und die Resultate von eurgra-Fartien) Deutsche Zeinkerni in v. Ilielia 24, 18

Fractures of the faw especially isolated fractures of the neck of the faw are sure in children. Therefore the literature contains few reports on methods of treating them are the results of such fractures. The thor discusses the causes, diagnosas, and therapy on the basis of four cases.

therapy on the basis of lour cases. He states that fracture of the neck of the mandable is usually caused by an indirect force and may be associated with other fractures of the lower or upper jaw. In bilateral fractures there is a typical and neathy symmetrical backward and upward dislocation and the chin portion is drawn does so that there is often a space of % cm. between the root of teeth. Unlistened fracture of the neck is crosspanied by a dislocation of the fragment toward the arounder date and a displacement backs and, out ward, and upward. A roemigen examination aboels always to made

If the condyloid process is only dislocated, direct reduction is not emential. It is necessary only to roplace the large fragment in correct relation to the upper jaw The small fragment will seedly return to its normal site. As a rule it is possible to obtain good healing with good joint fraction, good opining of the mouth, and good articulation. The immeh lization of the lower law need never be consists For temporary fination to the upper law the author uses intermanilary elastic bands which permit has Ited but sufficient openior of the mouth. The movements of the taws in speech, in the taking of nourishment (finids) and in the necessary cleaning of the month prevent articular disturbances and much atrophy and to a certain extent preserve the natural function of the lower few Kroka desaporos as of the American method of complete immobalisation life states that in the cases of small chaldren extinution of the condyloid process is contra indicated because It has severe, irremembable sequele. In cases of pabluxation fracture in adults, extirpation may have relatively good results

marriery productions from cases of fracture of the models are cases of histern from the models are case of histern from the model of the models are case of histern from the model of the termaniflary deskide band and the application of a splint to the teeth of the upper said lower jax. The second case was cone of shifted in the time of the second case was cone of shifted in the time of the time of the second of the time of the time of the second of the time of the time of the time of the second of the time of the time

The preparation and application of the different splints in combination with a plaster cast is shown by numerous illustrations Garrier

Reichenbuch, Z. Fracture Dislocations of the Hand of the Mandible (De Verrenkungbreich des Unterkerfergeienkapfs) Deutsche Zubenreit

see Reil 254, 37
By the term dealocatos fracture is resulty
meant fracture in which the part of the fracture
been including the joint red has lost fit assume
position completely or incompletely control
fracture to the second of the control
fracture to the lost of the mandable near or carreain
into the plant. The locrease in the freeponcy of each
fractures since the W, it raise been due to the increase.

in sport and transportation accidents and to the fact that such fractures are now recognized more often because of more frequent X-ray examination In 1933, 24 per cent of the fractures of the Jaw

seen in the author's clinic were articular fractures and 25 per cent of the latter were dislocation fractures In discussing the manner in which such fractures tures are produced, Reichenbach cites especially Wassmund's report on fractures and dislocations of the facial portion of the skull, Published in 1927, but refers also to articles by Perthes, Borchers, Schlampp, and others He states that it is difficult to explain why the head of the bone sometimes fractures in one way and sometimes in another The direction of the line of fracture is not constant Also in the discussion of this problem Reichenbach cites the authorities mentioned He says, the action fractures of the point head is produced he says, the day are actions of the point head is produced he says. cation fractures of the joint head is produced by the recognized factors in all bone fractures. As one or another symptom may be lacking, a positive diagnosis can be made only by roentgen examination

In the treatment, operative reduction or extirpation of the avulsed head has been done most frequently Rundi, in an article on the clinical picture quenus Aunus, in an article on the cumular production of articular fractures of the lower law published in or arricular fractures of the fact that 1928, was the first to call attention to the fact that 1920, was the most to can accompose to the fact that non-operative treatment may be successful in disnon-operative meaning may be succession. He carried location fractures of the head of the law. out such treatment with functional splints combined with a unlateral or bilateral movable splint or a

Independently of Rundi, Reichenbach has been trying non operative treatment in cases of dislocarubber chewing prosthesis, tyme non operative treatment in cases of manual tion fractures of the head of the law for several tion fractures of the mean of the basic treat years. In all of his cases (twelve) the basic treat ment was the same. The dislocated small fragment. was left entirely alone, attention being directed only to the large fracture fragment Intermaxillary elastic bands were introduced between splints in the upper and lower jaw to obtain semi-immobilization The twelve cases are reported in detail. In all of the cases subsequent examinations demonstrated that the opening and closing movement was unhindered. In no case were there disturbances of articulation Mastication was subjectively as good as before the missucation was subjectively as good as before the injury Anatomically, except in one case with normal backers the delegation powerful. mal healing, the dislocation persisted Nevertheless

bony healing occurred Roentgen examination dispony nearing occurred Roenigen examination dis-closed marked deformities of the joint and especially of the joint head Neither roentgenologically nor clinically, however, was it possible to observe evidences of arthritis deformans The author believes dences of artificial deformants. The author believes that because of the great risk of surgical treatment, orthopedic treatment is to be preferred to operation, and that operation should be considered only for old and that operation should be considered only for old fractures in which attempts at reduction of the large fragment by strong apparatus has been unsuccess ful For such fractures he recommends one of the surgical procedures suggested by Perthes—osteotony at the site of fracture, resection of the head of the law, or osteotomy above the angle of the law

Schoenberg, M. J. Retinal Detachments Clinical oenberg, M. J. Kennai Demonments Cunical Experiences with the Diathermic Treatment

Of twenty-three cases of retinal detachment treated by diathermy, the treatment was successful in fourteen and failed in nine. The author analyzes the failures He states that in several of the cases of failure the prognosis was poor because of long duratanute the prognosis was poor occause or rong ourse toon of the detachment with consequent degeneration of the retina and vitreous In two cases, of aphabia of the periphery of the fundus could not be properly examined, and in others there was lack of cooperation after the operation In one case in which the result was unsuccessful the patient vomited the night after the operation However, early postoperative vomitation operation. ing occurred also in several of the cases in which a my occurred also in several of the cases in which after the cure was obtained. In addition to poor selection of the cases for diatherm), errors in technique, and lack of postoperative cooperation there are other less of postoperative cooperation there are other iess obvious reasons for failures. The choroid may be so ouvious reasons for families the choron may be so atrophic that it will not react to coagulation or to any other means of producing an inflammatory reacany omer means or producing an innaminator, reaction. A degenerated and folded retina may not be capable of returning to the normal position, or the return of the return to its normal position may be prevented by adherence to the vitreous In some cases the subretural fluid may not be resorbable The cases discussed are reported in detail.

onclusion the author says that as most of the successful results were obtained in the last cases succession results were obtained in the last cases treated, it is obvious that experience making for a better technique is of importance

Coates, G. M., Ersner, M. S., and Myers, D. Roentgen Changes in the Petrous Portion of the Temporal Bone Without Clinical Manifesta tions Arch Ololary ngol , 1934, 20 615

Following a review of the literature relative to ronowing a review of the merature remove to involvement of the apex of the petrous portion of the temporal bone, the authors state that Gradenigo's syndrome may be independent of petrositis, ngo s syndrome may be muchengent or periosus, petrositis may produce Gradengo's syndrome, and petrositis may exist without symptoms

Gradenigo's syndrome has been attributed to venous congestion of the temporal bone resulting from venous circulatory disturbances

In many instances the roentgenologist is unable to distinguish between petrositis, evidative petroof the petrous portion of the strong and congestion of the petrous portion of the temporal bone due to venous anomalies of the skull mporal pone due to venous anomanes of the sakun-According to Wittmaack, Profant, Druuss, Ko-

petzky, and others, true petrositis can occur only in In a diploic temporal bone, the lesion is usually a pneumatized temporal bone

osteomyelitic rather than coalescent Petrositis as revealed by roentgenography

not necessarily indicate surgical intervention

The Kopetsky Almour operation and other operations on the petrous portion of the temporal bone do not always come up for consideration as many patients recover after simple mastoidectomy and

myringotomy

Key films are essential for (1) determination of the type of temporal bone, whether it is pneumatic, acterotic, or diplote, (1) determination of the size of the lateral stone and jugular foramins and (3) roent genographic visualization of the temporal bone for a permanent record.

The authors report take cases aboving definite trensgrouppings winders of invariances of the aper of the persons portion of the temporal boxes. Recovery occurred in all One patient recovery of the person of the temporal boxes. Recovery occurred in all One patient recovery in other atter several mynapoints. The authoritate that fudgment and care are necessary in deciding on the treatment in given care. Radical surgical procedures should always be based on definite indications. Laws C. Branners, M. D. definite indications.

#### HOSE AND SINUSES

Spielberg, W. The Pathology of Chronic Simusitie in Children. Lety paceds 934, 44 35; The author states that on phicoconic examination

It is not at all difficult to determine the predominant may issued from the great appearance of the mail classes. It tends toward entire hypertrophy or trophy. The mesones of the none and turbuster are flects the condition of the sinus uncome. In both carry and chrone disnesses there may be seperated as the condition of the sinus uncome. In both carry and the support of the condition of the sinus uncome in the separate are not included in the arether, discussion. Spelders are not included in the arether, discussion. Spelders are that the history are the spelders are the support of the spelders are not included in the arether, discussion.

JAMES C BRASTEU, M D

#### PHARTNI

treeby of the next mucous membrane

Hoover W.B. The Treatment of the Lingual Tonell and Lateral Pheryngeal Bands of Lympheld Thoma. Sury Clus North Am. 934, 54 57

The arthor states that the Ingral lymphord traces and lateral pharryigal masses of lymphord traces are frequently the acts of recurrent following infection and may constitute fool of infection. They often cross local symptoms requiring treatment for relations are very frequently overhooked.

When they are the sites of recurrent followist infection or may be foot of infection they should be removed. The author describes a practical method for their removal. James C. Baarstal, M.D.

#### HECK

Kenn-Apsjalahti, L. Studies on Mysodems in Children (Studien seber Mysodem bei Kindem) Acts Sax med Februar Dunkern 934, 9 Fest

The author reviews eighty-seven cases of infantile mysordema, most of which he collected from the records of the hospitals and other hestitutions is Finland. Two thirds of the subjects were sirls. The condition occurs throughout the country but is less frequent is the castern portion. In seventy-five of the cases reviewed it was congenital Familial hereditary conditions included tuberculous in 11 per cent of the cases, hypothyroidism in 3 per cent, heart dassase in 0 5 per cent, and goiter in 8 per cent. Many of the mothers gave a history of tale births, kidney disease, hemorrhage, and pervoonen In only five instances were two citildren of the same family afflicted. The average weight of the myzode matous children at birth was 4 og kem as commercia ith an verage weight of 3 500 kgm, for all Franks children. The weight at birth of the myandenston children usually exceeded that of the other children in the family The prognosis was poorer in the cases of the children who weighed most at hirth. Thyroid deficiency may therefore cause intra-stering sactsbolic disturbances

The sutreated children with myrocheas gremost quickly during the first months of the first year. Their growth then slowed down at each secreteday yes and assally stopped between the fifth and suth years. The mortality was light during the first two years (at least 7 per cast). Dutil smallly resulted from potentional Assaults at slaving present, and the secretary and motive fine, the property of the stopped property and sorber fine, implications was done in four cases, but had only transferred efforts.

In the cases of elevers infants reienseconic studes were made of alia specimens removed for boosty before and after thyroid treatment. The development of the skip was retarded, and there was pronounced atrocky with almost complete disappear ance of the sebaceous glands. Only traces of the hear roots were found, and the sweat glands were made and vacnolated. There was little or no fet about the sweat glands. The blood vessels are small and few The codum showed compact, thickened man of abrons tissue. The epidermin as uniformly thinned, and the papalles were absent. The subestaneous fat was trouble or underdeveloped After thyrold treatment for only three ceks new scheceous canda and hair follows appeared and there as general growth of the cells ith development of the exect clauds, blood vascle, od fatty tissee. The counts became narrower and less compact. The effects of thyrord therapy ere not equally favorable in all Leo M Torontus, M.D. CESSES

Parkinson, J., and Hoyle, G. Thyrotoxic Hypertension. Level 934, 27 9 J.

Data from no cause of hypertension are presented to a table. It is assumed that symptoms derived from meaning the same and that symptoms derived from the same and the same and the same are reported. Subtotal thyroidectomy was does in it canes, but its effect on the blood pressure cannot be judged as yet. Is the discussion there are invessed references: the filters there is not same and the same are same as the same are same a

Thyroid Surgery as Affected by the Generalized Use of Iodized Salt in an Endemic Golter Region, Preventive Surgery Ann Surg, McClure, R D

Iodized salt was first introduced to the public as a prophylactic measure against endemic gotter in Michigan in 1925 A progressive diminution in the incidence of goiter in children then began and has continued In 1924, 35 per cent of Detroit children examined had gotter, whereas in 1932 the percentage Was only 14 In 1927 there was a slight increase in the number of thyroidectomies performed in 7 Detroit hospitals, but since then a progressive decrease has occurred each year In 1933, 591 thyrodectomies were performed as compared with 1,294 in 1926 In 1925, performed as compared with 1,294 in 1920 1926, and 1927 the Detroit Board of Health reported a great increase in deaths due to goiter, but since a great merease in ucacus due to goner, out since 1930 the number of deaths from this cause has been no greater than in the years from 1916 to 1924 The findings of the author's investigation and his

conclusions are summarized as follows I lodized salt as used in Michigan at first apparently increased the number of thyroid operations 2 The increase was in cases of nodular goiter or

adenomata The lodized salt may have activated a group of quiescent adenomata, producing toxic

The increase reached its peak in the second year after the introduction of jodized salt goiter symptoms

An increase in the death rate from goiter as shown by the Board of Health Statistics reached its peak in the second year after the introduction of

There was no increase in hyperthyroidism except in cases of nodular goiter or adenomata The number of operations for toxic diffuse and iodized salt

toxic nodular goiter has rapidly and steadily de creased since the apex of the second year increase 7 The incidence of endemic goiter or enlarged

thyroid has been reduced to almost nil since iodized

8 No cases showing the slightest ill effects from salt has been widely used

Toxic nodular gotter and toxic diffuse gotter the use of rodized salt are now seen are less apt to occur when there has been no previous

enlargement of the thyroid (endemic goiter)

Mixter, C. G., Blumgart, H. L. and Berlin, D. D. Total Ablation of the Thyroid for Angina Pectoris and Congestive Heart Failure Ann Surg,

The authors report the results obtained in twentyfive cases of angina pectoris and fifty of congestive heart failure in which total thyroidectomy was done for relief of the symptoms As experience in this treatment increased, the mortality decreased and the incidence of good results increased rapidly factors chiefly responsible for the decrease in the operative mortality were the substitution of local for general anesthesia, the reduction in the amount of pre operative and postoperative sedation, and

more careful selection of cases for the operation The increased incidence of favorable results in the later cases was due almost entirely to the last factor In the cases of angina pectoris there was no operation

ative mortality

Thirty-five per cent of the patients were completely relieved, 50 per cent were moderately benefit and only on the particular benefit and the particular ben ately benefited, and only 15 per cent showed no improvement. Those showing no improvement were operated upon early in the course of the work and would not now be considered suitable for this type

of therapy

In the cases of congestive heart failure there was an operative mortality of 12 per cent. Fifty-five per an operative mortancy of the patients who were formerly incapacitated and confined to bed a great part of the time are now and commed to bed a great part of the time are now working or able to work, 13 per cent show definite improvement, and 7 per cent show no improvement. Threen per cent who were moderately benefited for from four to ten months after the operation subsequently died of cardiac disease The mortality Sequency used of cardiac disease. The moreony of 12 per cent occurred in the first twenty eight As in the cases of angina pectoris, the unsatisfactory late results occurred in the patients who were operated upon in the early phase of the work

The authors state that a permanent beneficial effect from the operation is not to be expected until

the basal metabolic rate has fallen 20 per cent or more A pre operative basal rate of -20 or below is a definite contra-indication to the operation This was demonstrated by the fact that all patients, required postoperative thyroid feeding to control myxedema when the basal rate reached approximately -30 In cases in which the pre-operative basal metabolic rate is low, thyroid feeding is required when the rate decreases from 5 to 10 per cent, and this small drop is not sufficient to relieve the symptoms Operation is contra-indicated also in cases of congestive heart failure in which there is evidence of heart disease progressing rapidly in spite of all forms of medical therapy, cases of angina pectors which have become progressively more severe over a relatively short period of time, and cases with a history of previous coronary thrombosis ARTHUR S W TOUROFF, M D

Brenner, O., Donovan, H., and Murtagh, B. L. S. Total Thyroidectomy in the Treatment of Congestive Heart Failure Bril M J, 1934, 2 624

The authors report six cases in which complete thyroidectomy was done during the first four months of 1934 for the amelioration of terminal heart dis ease In all of the cases the cardiac condition was improved as judged from tolerance to exercise shortly after the operation None of the patients died as a result of the thyroidectomy One died of a The venous pressure was not significantly altered The pulmonary circucerebral vascular accident. lation time was either unchanged or increased. The vital capacity was unchanged The basal metabolic Only two of the six patients showed signs of slight hypothyroidism. rate was lowered 17 per cent PAUL STARR, M D

Stone, H. B., Owings, J. C., and Gey, G. O: Transplantation of Living Grafts of Thyroid and Parathyroid Glands. Ass. Surf. 934, 00 613

In this article the authors report their further experience in thempts to transplant living thyrold and parethyroid these from one asimal to saother of the same species. From their earlier experience they conclude that he the site in hich a prospective graft is t be placed there should be a closely adjacent vascular supply from which new vessels may develop to support the growing graft, but that the timese itself abould not contain a rich capillary network, as does the liver and spleen, because for such a bed the development of hematoms is not to choke the graft. The tiente selected should be loose In terture and free from a dense capsule, such as that
of parenchymatous organs, and from from sheath such as that of voluntary muscles which ould cause pressure on the graft and solubit its growth. The site aelected should be easy of access in order than a difficult or hazardous operative exposure will not be necessary for the implantation and there will be no damage to any necessary or important organ. All of these requirements are met by the loose areola thenes of the axilla and groin Practically all of the authors' successful grafts, both in does and human beings, were placed in these localities.

The authors stal also that exceedingly small grafts are much more pt to survive than large fragments of transplanted those because only the performal layer of cells in the graft can be nonraised by the host fidit of the host before the rraft becomes

vaccularized

Another factor struided was the adjustment of the prift to the chemistry of its new certiforment in the host animal. In their attempts to dapt the graft to the host the authors find graw the thenes to be tramplasted in an artificial tissue culture medium containing the body finds of the future host. They describe the technique of their cross-grafting experiments as follows:

Under aseptic conditions portion of gland is removed from Animal A. With practutions for rigid aserois, which are maintained throughout the several weeks and all at ges of the experiment, this portion of gland is cut up fith special knives into insgnents from t mm in diameter. The framewise then implanted in culture mechan contained in a bollow ground slide or small flask, and the culture is placed in a thermostat at body temperature. As it grows, the culture tends t liquely the medium When Bouefaction occurs it must be transferred to fresh medi m. The rate of bouelection varies with different cultures. Some parathy road tomoes require an almost daily transfer bile some thyroid tawers will not require transference oftener than t inter vals of three or four days. After being kept in culture in this way for a period of from two ceks to month, the cult re is ready for implantation as a graft A harmostat is pushed blustly into the fat and arcolar tumos near the large vessels and spread so as to make a pocket to receive the graft. The various

small cultures so be inclusived an picket up ha a pipetic suspended in all solution, and then sound parity into the pocket prepared for them. In ortare needlem is composed of (i) digit paris of physiological solt solution plan decimes appart of beet embryo extract, and (i) then paris or part of beet embryo extract, and (i) then plans of the recipient serum and eight parts of their plans of the recipient obstance from chilled bepausated blood. This formula makes up to a total of twenty narts.

Of the last series of eleven dogs Ia which the nothers made homotramphons of layroid and parthryoid glands, five above of definite seapershouldlong standing takes. Histological examination of the grafts allor varying periods of series duclased very lattle evidence of an inflammatory reaction, but showed new ingrowth of blood remels from the

bost and widence of mitoris in the graft cells. The authors have also were the described method of grafting in ten clinical cases. Grafting of the date of practical cases. Grafting of the cases and of practical cases, as done is five cases each. In only two of these cases was the grafting one enficiently long up to warrant conductor regarding the results. In both of these known contrasplantation of tissue was done to correct part thyron decidency resulting from surject operation. In both, the symptomes of deficiency was relieved and the chemical character of the blood was restored to normal. Learns R. Dasserter M.D.

Taylor Il. K., and Nathsesson, L.: A Resentenclogical Study of Tuberculosis of the Larynz and Neck. Am. J. Revelence., 924-22-550

The authors state that laryngeal tuberculosis or curs often enough as a concomitant of the malignasi type of pulmonary tubercalous to warrant routine roenteen studies of the baryny in cases of tubercales of the lange. They refer briefly to the studies of inherculous of the larynx and neck hick have been made by others and discuss the pathological changes in the condition at some length. In describing their own technique of examination they emphasis the importance of a complete rocat genological stad in cluding observations during phonation, imperation, expiration, and as allowing, with and without the use of bartom, and, in addition, a lateral telecocategorograms, one taken while the larynx is at rest and the other while the patient is making high pitches E. sound They describe the structures hich say be visusheed under normal and pathological conduces and show them is rosnigenograms

Tabernshen betoen of the larges or classifed by the surbers in 3 propsa—the maintail, the reduction, and the extenders. This classification is breed on their cetter trater than on anatomotic or pathological factors. The minornal lexicons are located at writingle or the largesty resold area of both moderns leaders involves the moderns belong the largest produced area from the control of the control of the largest produced are leaders as the appropriate lobble how. They may alway as the support of the produced area for the produced and the largest states of the produced the largest states. The extend is close as after practical if all of the largest states are supported to the produced and the largest states are supported to the produced and the largest states are supported to the produced and the largest states are supported to the produced and the largest states are supported to the produced and the largest states are supported to the largest states ar

may also involve the contiguous tissues Involvement of the epiglottis is particularly pronounced in this group. The changes demonstrable roentgenologically in each of these groups are discussed at

length

Correlation of the roentgenological with the clinical manifestations in 100 cases studied revealed a slight discrepancy, especially in cases of minimal lesions. A few minimal lesions were missed on roentgen study and i lesion which had been missed on physical examination was discovered on roentgen examination. In the cases of moderate and extensive lesions there was little difference in the findings except for slight variations in the pathological details. Pul monary tuberculosis of the caseous pneumonia type was present in 93 of the roo cases, pulmonary tuberculosis of the exudative productive type in 5, and pulmonary tuberculosis of the proliferative type in 1 In 1 case the chest was negative.

With regard to the differential diagnosis the authors state that roentgen examination of the neck will not always permit an absolute differentiation between larvingeal tuberculosis, syphilis, beingn and malignant neoplasms, and paralysis of the vocal cords. They describe briefly the changes which are more or less characteristic of these conditions. They state that unless the lesion seen in the larying is very characteristic of a condition other than tuberculosis the presence of pulmonary tuberculosis is usually very good evidence that the pathological involvement of the larying is tuberculous. In many instances the site of involvement and the gross pathological changes visualized in the roentgenogram suggest the diagnosis.

In summarizing their article the authors state that roentgen study is an aid in the diagnosis of laryngeal tuberculosis and should supplement the laryngologist's examination. It presents a sagittal view from which the height and width of the lesion and the presence of subglottic extension can be determined. While small lesions situated deep in the interarytenoid area are not detected by roentgenography, small intraventricular lesions which may be missed on examination with the mirror are demonstrable in the roentgenogram. Moreover, roentgen examination gives a permanent pictorial record of the location,

extent, and progress of the lesion.

Adolph Hartung, M D

Lenz, M., Coakley, C. G., and Stout, A. P. Roentgen Therapy of Epitheliomata of the Pharynx and Larynx Am. J. Roerigenol., 1934, 32 500

During 1931 and 1932 the authors treated thirtyone verified epithelioma of the pharynx and larynx
by a modification of the Coutard method of roentgen
therapy. They give a detailed description of this
method including the technical factors, the dosage,
and the manner in which the treatments are administered. Only twenty-four of their cases were
considered suitable for evaluation of the method
and for the determination of the criteria prognosticating its success or failure. In four of the others

the dosage was insufficient, and in three a laryngectomy had been performed previously and there was doubt as to the persistence of the growth

The twenty-four cases reviewed are tabulated with regard to the patient's age, the approximate size and site of the lesion, the surface dose and neck fields, and the period of treatment. The lesions were classified according to their microscopic appearance into three groups radiosensitive, radioresistant, and doubtful, 1 e, mixed The characteristics which suggested radiosensitivity were infrequence or absence of Leratinization (epithelial pearls, intercellular and intracellular deposits), scarcity or absence of intercellular bridges, marked variation in the size and staining quality of the cells and nuclei, numerous mitotic figures, and a minimal inflammatory reaction Radioresistance was suggested by the opposite microscopic picture. A neoplasm was classified as doubtful when the radiosensitive and radioresistant characteristics were equally represented.

In eleven of the twenty-four cases there has been no clinical evidence of epithelioma during the nine months to two years since the last treatment. In thirteen the roentgen therapy failed to arrest the

disease

The total dosage administered per patient ranged from 5,600 to 9,400 r/o in the arrested cases and from 7,500 to 13,000 r/o in the unarrested cases. In the latter group the larger dosage and longer time of treatment were due to the fact that the disease was more extensive and therefore a greater number of fields of irradiation was required

Of the eleven clinically arrested cases, 9 belonged to the radiosensitive and two to the mixed group Of the cases in which the treatment was unsuccessful, ten were classed as radioresistant and three as

radiosensitive

Necrosis of the laryngeal cartilage is much less frequent after fractionated roentgen therapy than after the older vigorous roentgen therapy given in a short time, but occurs occasionally. The authors cite several instances in which it occurred in the series of cases reviewed

Tracheotomy did not interfere with the treatment of the cases, whether it was done before or after the

roentgen therapy

According to the authors, this study confirms the experience of others which indicates that among the factors militating against successful treatment are (1) an extensive infiltrative growth, especially one associated with deep infection, and (2) tumor invasion or local nutritional changes of the laryngeal cartilages, processes which reduce the radioresistance of cartilage and favor chondronecrosis

In conclusion the authors say that the results reported are very early and may change with time However, they regard them as sufficiently encouraging to warrant continuation of the described method of roentgen irradiation in the treatment of epitheli

omata of the pharynx and larynx

ADOLPH HARTUNG, M D

MacKamy, J. S.: Malignant Dissess of the Laryzer Rare Types, Frenskignant Conditions, and Conditions Shoulating Malignancy Arch Osternam 934, so 297

The author believes that besign insions of the laryng rarely become mallgrant, and that malignant lesions which at first appear benign are mallenant from the beginning, but for some biological reason their growth is kept in check for an indefinite period of time. He states that, contrary to the generally accepted theory cancer of the larynx may occur in young persons II has seen it in five patients under thirty years of age. Four of these patients were women. Three who were operated upon were free from recurrences for four three, and one year respectively. Laryageal carcanoma in the young in more common in nomen than in men, whereas laryugeal carcisoms occurring in later life is more common in men than in wessen. In young persons cancer of the larvax is apt to be mistaken for an infectious granuloms or a benign secolsum. If larvageal tuberculous can be excluded, beopsy should not be delayed when laryngeal carcinoms is suspected Blocay should not be done to cases of laryngest

imberulous 
Sarcoms of the laryax is rare. Machenty has observed only one case. The lesion resembles a slowly progressive choodrids with saved displacement of the larralaryageal arretures without maring or changing of the surface. The characteristic appearance of a malignant growth us not seen in garcoms until the lesion breaks through the mucous

membrane.

In two of the author's cases of laryngest tracer
the condition followed prolapse of kiorgagms wentricle. Rath of the matients save a history of probable

and were engaged in an acceptation demanding exconsider use of the voice. MacKerty reports the a case of chondritis of the thyreld cartilage wide assulted in curcus and a case of laryngeal accompany

in a man sixty-three years old.

Sciences of the kiryax is the result of latector, with specific micro-organization, the Flisch bardes. The Insions are descrite, birish-red, referenties reaches which are infercious granulement. For condens which are infercious granulement of the condens and the properties of the propert

Amyleid tumous of the larguz may occur as local lesion or as part of a generalized mirelandois. The author has observed one case. The implement artificiated by some to an overproduction of chadreliti-sulphuric acid which because howed valproteins is air and is most prose to occur in these subjected to inflammatory or neoplastic irritation. Multiple or single modules appear. They are pareally sensite, but sometimes perhaushated. Buy range to conduct of the control of the control transplandors of oval, and was the product of the lackade settingston, fulgrantine and the application of residual controls.

Blastomycosis of the larynz, which is rare in America, is apt to be mistaken for tuberculosis Parmhlyes of the larynz is also rare

ALTON OCHEVER, M.D.

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL

# Encephalography in Children

Walker, A E Encephalograph
Am J Roentgenol, 1934, 32 437 Children presenting neurological signs or symptoms referable to chronic or stationary lesions of the bran comprise a large group in which encephalog raphy frequently yields valuable information. This diagnostic aid is particularly important because many clinical syndromes of childhood have varied

changes in the brain as a pathological basis The encephalographic findings in some of these clinical syndromes of childhood are as follows

I Agenesis Cerebral agenesis may occur in any part of the brain, including the cerebellum condition the encephalogram shows collections of air in various parts of the brain and cerebellum, depending upon the local agenesis present 2 Birth injuries Birth injuries may be mani-

fested by arachnoiditis, ventricular dilatations, or

3. Late infantile palsies, Infantile palsies due to acute cerebral insults in the first year of life are usually hemiplegias. The encephalograms in cases porencephalic cysts of such palsies show quite constant lesions either in or such paisies show quite constant lesions error in the form of a dilated ventricle on the side opposite the paralysis, arachnoiditis, or an area of cortical

The findings in three cases were practically identical All showed a marked atrophy on that side were practically inclinical full showed a market internal hydrocephalus with evidence of severe

Mongolian idiocy Only one case of mongolian aplasia of the frontal or parietal lobes only one case of mongonan idiocy has been reported. The findings in this conditions have been reported.

duton consist of ventricular dilatation and marked The encephalographic findings in aplasia of the frontal lobe

o repliepsy the encephanographic indules, present epilepsy in children, as in epilepsy in adults, present

Acute inflammatory diseases of the central nervous system (encephalitis, meningitis) no constant features cephalography in acute inflammatory diseases of the central nervous system in children has been

eases of the central nervous system encephalography found of no diagnostic value often reveals the site of the most marked patholog-

that organ

a The Bielschowsky Jansky type of amaurotic The findings in this condition consist of a greater increase of air in the sulci and over the cortex ical process of the anterior portions of both hemispheres Mild dilatation of the lateral ventricles and air collections about the cerebellum indicate marked atrophy of

b Basal ganglion disease The findings consist of a considerable amount of air in the sulci over the cortex of the brain and an enlargement of the anterior horns of both ventricles due to the diminution of the shadow caused by the caudate nuclei of the Shauon caused by the caudate nation of the Shauon Although children are sub-

lected to cerebral trauma much more often than jected to tereural trauma much more often than adults, it is relatively infrequent that serious sequelæ The minor after-affects so are seen in the young the so-called post-traumatic often present in adults—the so-called post-traumatic onen present in address the so-cancer post-traumant syndromes of headache, dizziness, visual disturbances, and mability to concentrate—are practically never complained of by children under the age of Occasionally, however, they occur in children between the ages of ten and fifteen years The roentgenographic findings are not constant

### Cairns, H., Donald, C., Scott, S., Ormerod, F. C. and Others Discussion on the Diagnosis and Treatment of Abscess of the Brain Proc Roy

CAIRNS and DONALD stated that abscesses of long duration usually have walls 0.5 cm or more thick In cases of such abscesses they have obtained successful results only from complete removal of the abscess with its wall. In general there are two methods of dealing with brain abscesses drainage by the of deating with brain abscesses drainage by the closed method and drainage by the open method In the former, the abscess is located by needling through a burn hole about 15 cm in diameter. Its depth is carefully noted, the bony opening enlarged to 2 or 25 cm in diameter, the dura opened more widely, and a Jacques rubber catheter (Size 10) or a webbed intratracheal catheter pushed into the brain to the desired depth in the same direction as the needle If pus is located, the catheter is cut off about 2 cm above the surface of the brain and a dressing is built up about it. The whole head is then encased in a starch dressing to keep the catheter from moving By the open method dramage may be established

through a limited opening (4 or 5 cm in diameter) or through a large opening (4 or 5 cm in manneter) or through a large opening made by turning down an osteoplastic bone flap. In cases of thick-walled absence of the latter is not contained to the latter in the latter of the latter in the latter is not contained.

Whatever method is used, the after-treatment is its same. The patient should be placed so that scesses the latter is more satisfactory drainage of the abscess is favored by graviti Dressings should be changed infrequently and the first dressing should be left undisturbed as long as possible, usually from seven to ten days Earlier changing of the first dressing should be done only when some

complication ensues or the patient becomes uncomfortable because of the discharge

The postoperative complications include a rise in the temperature, cedema, meningitis, squint, double

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vision, incomplete drainage, recurrence and epilepsy Gelema and mentigeria both probably play a part INTERNATIONAL ABSTRACT OF SURGERY to the recurrence of the symptoms that occasionally a part occasionally and membrane and membrane point promotely play a part occasionally.

temboarth imbroatment after observers of the standards for the standards of the standards o toron their operations Crims and Dough have From their conclusion that there is an active clothecome to the concention that there is an active circu-lation of fluid in the white matter around brain absersion or many in the same amount another near woscener. Under certain circumstances tous may puss rapidly into the abactus cavity while under other rapady into the absence cavity while under other colors. It may cremments in large amounts in the white matter. It accommone in wife amounts in the water matter at the possible that postoperative orders may be caused h possible that postoperative creems may be caused as fallenties in the spread of fallenties in the mentions and train itself at the time the abaces is intended and train there at the time the absence of dramed. Spreading remuniths can exist without any of the chancel stant of mentality Critics and Don-recovery observed scanness can care atmost and

or the council sum or memorphis carm and avoided believe that a certain among to of membridge at and peners that a certain amou to communities as-ways occurs after the drainage of an abaccas. They ways occurs after the crame of the criems, it should not be treated by further america. present not be created by turner surgery to the fact that the spaces is unifricults on that it

per already points through its sell int the automore, or test it on the interest of test in the interest of test in ing these. The cases in which recurrence of the abing times 1 be cases in water perturbative to the so-scens is most to be leared are those in which pererscrap is most to be instead are those in which persons for fallers of recovery to occur. become perme father or recovery to occur probably indicates seat theme and where there is property tomes are bacly to be areas / pos cells from which recurrence may to so a tour To some crace the chances for

In some cases the chances for soccessful results from surprial free times! are extremely Pow from the beginning because of the seventry of the intection and beginning because of the seventy of the interction and the low resistance of the patient, but there are many cased in which death is due not so much to the low applify of the bardent i security and family the later cannot to answer nearth in one not so cannot to one intion as to the surgeon's inability to find and deal adequately with the above.

sequency with the species SCOTT with that temporogeneratest according to the combined above of office or spin, is due to infection penetrating directly through the boay wall and durant combined according to the horizonte. It is major to the adjected part of the brain coster. It is matter to the appear only when the signs and sympjusting one to expose only when the using and symp-toms are favily marifest. These may be divided into toms are tarry maintent. These may be divided into groups—the excelbral and the excellent. Two are groups—the errorsal and the errorettar 1 mo types of irratment, cruckention and drainage are need for horizon of this nature

In operations for brain abscers according to oridthe dark step adades embership to account to the matted and the bestormance of 800 attra, of one or matter me days step measure expressions of the matter and opening of the duta follow

th dramage of the abovers if it ca be located the cramage on the sources is it is the second of the opinion that the firming of opening the often very hard boos with mallet of state is pix to injure, by the doctor which is very state in very state in very ing northern calculation in the outcome and to a stripling it and so here's

Jupice the capsuse. sometimes t use the finger as a probe one one one unger as a proper as a proper

office packed is the thermal too pain appeared to the training to be the training too be the training to the t JOHN BRIME PRIOR II D

Belado, M. and Parolal R.; Surpicel Transment of Hyperchyseal and Partity/Postsylvani result of Chandles to Qualification for the Street Street, and the Street Street Street Street, and the Street St

S beinghoganios) que actamina de la maior de la maior

Following a discussion of the pathological char POLICE AND AMERICAN OF THE DESIGNATION OF THE PROPERTY AND THE PROPERTY AN hypophyseal and perihypophyseal temora, the author 1934 questipe (petr recupiline and achort (petr exhement and results for the surgeral treatment of such transand results in the surposi treatment of socs tensor. The conditions they treated lackness appeared to concern the figure of the opte site. causar, occupyanas, granus or on operant crashpharyngomia, and regirents/popular direction and detale. The case are reported to the case are reported to detail with Electrations.

Francis C. II., Materal Trigonologic County's

admitted to the Acaronappeal Clark of the Roseital ad the University of Pennsylvanta 515 operators on of the volutions of reaction and operations the sensory root or graceline grapher or per formal with major trigonical nearly is easy and the sensor when the sensor was a sensor when the sensor when the sensor when the sensor was a sensor was a sensor when the sensor was a sensor was a sensor when the sensor was a sensor was a sensor when the sensor was a sensor was a sensor when the sensor was a sensor was a sensor was a sensor was a sensor when the sensor was a sensor when the sensor was a senso former to man report transmits a secretary to encountries of historic disease, there were J actionic cases of historic involvement. The incidence of the contribution printeral latory ement was therefore about

Conting reports the incidence of believed have the ment as 6 per cent, and Adon, as 1 per cent.

In 936, Harm reported an incidence of 1 per cent. in 910, itaria reporter an incorace of a per true in a series of cases which memory. Operations, assuring majors in patients selecting skily some form of chicac shorter backbash; same tribunions sometime major, in backers section the same same or current another interpretary trans-dimensional desirable. Having may that there of discriminated scarross statute may last take in descripted activate in association with information mentalists are too mamerous to be accounted for by

neutrina are not commenced to be accusated for the any theory of chance. Fracier is maddle to recall an early both conditions series present. In the decisionerst consistent with owners one ease these is no organic beston as the eclodated facthe toria is no organic senso as the etiooperi in the disconting with disthe section of the consection assessment are securify a section of the securify and the securify a second consection of certain the securify and the second consection of certain consections of the securification of the second consection of the se tractive the occurage must be consected a control of the few securities of radically different origin cannot easily be facilised in the same cuttons.

y occasional cases introlucent as the same confloration remote carrier in the fact of the of the face occurs simultaneously. As a rule, how or the sace occurs amoutaneously As a rue, now arrive occurs and the other side does not dreston until after an interval, and in some cases the interval may be many years. As this also, the involvement to kee active on the econd side than on the side to one every on the account now take on the sec-primarily involved. The author reports a case with primarily inverse. The autom representation of the pain, which is very rare

With regard to the cause of the troubling as more is known today then was known two hyadred Age in second most come are record too assume the partitional the of the years ago necesses of the parayeast type or use condition, so evidence of structural damage case to found in the trigonologic or superioral carnage was a found in the trigonologic system, if seems possible that the pain may be due to resource. It was

in cases of believes in any removation operation on the second side is not always indicated. Because of the comparative uniquess of the received and

the fact that it is usually confined to a single division, alcohol injections are often sufficient. Of the 23 cases of bilateral involvement reviewed, a bilateral major operation was performed in only 5 In o cases, operation was performed on one side and alcohol injections were made on the other, in 6 cases, operation was done on one side and the pain on the other side did not require treatment, and in 3 cases. alcohol injections were made on both sides Since the development of the operative technique which avoids section of the motor root, the radical operation on the sensory root can be done safely without corneal complications or loss of function of the muscles of mastication. The mortality in the cases reviewed was o 8 per cent

In conclusion the author says that the choice of treatment should be left to the patient

EDWARD S PLATT, M D

#### SPINAL CORD AND ITS COVERINGS

Peet, M M, and Echols, D H Herniation of the Nucleus Pulposus A Cause of Compression of the Spinal Cord Arch Neurol & Psychiat, 1934, 32 924

At its circumference, each intervertebral disk is composed of laminæ of dense fibrocartilage forming the annulus fibrosus The fibers run obliquely from one vertebra to the next and are firmly attached to The nucleus pulposus, an incomthe vertebræ pressible, semi-gelatinous mass, is found near the center of the disk. Interposed between the disk and the adjacent vertebræ are thin plates of hyaline cartilage Histologically, the nucleus is composed of loose fibrous tissue, a few cartilage cells, remnants of the notochord (large multinuclear cells), and a gelatinous matrix. Confined to its position by the elastic annulus fibrosus and the 2 cartilage plates, the nucleus pulposus acts as a shock absorber and a hydrodynamic ball bearing for the spine

Local degeneration or trauma of the intervertebral disk may produce a minute fissure in the annulus fibrosus or in a cartilage plate When this occurs, the nucleus pulposus, which is always under pressure, hermates through the defect. When the cartilage plate is fissured, the nuclear material forces its way into the cancellous bone of the vertebral body. The invading substance then undergoes proliferation and organization which finally transforms it into a firm nodule of cartilage, and a wall of dense bone is laid down about the lesion, making it visible in roent genograms. The fissures which develop in the annulus fibrosus are usually situated posteriorly Consequently, the prolapsing nuclear substance enters the spinal canal. There it forms a swelling under the posterior longitudinal ligament, usually to one side of the midline There, also, secondary changes take place, transforming the herniated material into a firm nodule of cartilage which usually remains attached to the disk. In examinations of the spine in a series of 368 autopsies, Andrae found 56 cases of posterior nuclear extrusions ranging in size from that

of a hemp seed to that of a bean. All but one of them were too small to have produced compression of the spinal cord These nodules may be found along the entire vertebral column and may produce signs of compression of the spinal cord at any level

In the authors' first case the syndrome of involvement of the cauda equina was presented Lateral roentgenograms showed narrowing of the disk from which the nucleus pulposus hermated In addition, the degenerated vertebral body showed a rarefied area which indicated that a nuclear substance had also ruptured into it

In conclusion the authors state that when a clinical diagnosis of compression of the spinal cord has been made and there is evidence of a diseased intervertebral disk at the proper level, retropulsion of the nuclear pulposus should be considered.

DAVID JOHN IMPASTATO, M D

#### Lehman, E P Uretero-Arachnoid (Ureterodural) Anastomosis Ann Surg , 1934, 100 887

A brief review of the surgery of communicating hydrocephalus is followed by the report of two cases treated by uretero-arachnoid anastomosis and one case treated by ureterodural anastomosis

The author emphasizes that the kidney pelvis must be anastomosed to arachnoid membrane if the patency of the anastomosis is to be maintained He regards the suture of the pelvis to the dura as entirely incidental and of importance technically only for firm union

One of his patients died of meningitis seventeen days after the operation, and another twenty-two days after the operation, apparently of acute dehydration. In the one case in which autopsy was done following a uretero-arachnoid anastomosis, the anastomosis was found patent, but apparently had not been functioning

An adult patient who was not benefited by the formation of a left bone flap and subtemporal decompression showed improvement following a ureterodural anastomosis Arachnoiditis was apparently responsible for the increased intracranial pressure The author believes that the ureterodural anastomosis permitted drainage until new channels were formed and compensation in the circulation and absorption of the spinal fluid were acquired Laboratory tests in late follow up studies indicated that the anastomisis was not functioning

ROBERT ZOLLINGER, M D

#### SYMPATHETIC NERVES

Ciceri, C., and Gabrielli, S Studies on the Variations of Alimentary Glycæmia Induced by Alcoholic Injection of the Splanchnics Attempts to Cure Diabetes Mellitus (Studi sulle variazioni della glicemia alimentare indotte dalla alcoolizza zione degli splancnici. Tentativi di cura del diabete mellito) Arch stal di chir, 1934 38 121

This is a continuation of the report of the authors' researches regarding denervation of the adrenals in

dishetes and the variations in abmentary glycosetle produced by splenchnic executionic (Abet. in INT ANT SURO 1934 50 422, 453) The first experiments demonstrated that in some cases bilateral deservation of the adrenals has a favorable and lasting effect on the giycerale disturbances and increases the sensitivity to insulin. The results of assesthething the left splanchule were so beneficial that the authors were encouraged to undertake a series of experimental and clinical researches on alcohol injection of both splanchairs. Such bajections were given in the cases of four disheties. In three, the immediate result was a reduction of the glycemic and glycosuria and increased sensitivity to insulin. The tests have now been repeated at intervals of several mosths and the procedure applied to five more subjects (one a renal diabetic) It has been learned that some of the results which appeared bulliant immediately after the treatment were not permanent

The cases are document in detail. The periods of observation ranged from six to fourteen month Apparently the patients were on a somewhat restored but not scientifically calculated that They were not under control, and some of them dare guided the driesty prescribious. Nevertheless the results were sufficiently definite to justify conditions as to the value of the procedure in diabetes and to contribute ladormation which may prove of all in the solution of the problem of the hormose.

relationships in this disease.

They showed that fallibilities of the secretion of the adress? mechille has a distinctly unfavorable effect in renal distolers. Thus is probably due to the infisence of insulas and adrenains on the renal threshold for glacose, the former lowering and the latter raising it.

In disbetes mellitus the effects on glucose tolerance, glycemia, and glucosurie very In pa-venile diabetic and a woman with a particularly high glycemic and glycourie, whose disease was of seventeen years duration, there was subjective improvement with good attlication of alimentary places for five or six months. At the end of that time conditions became as before except that the sensitivity to usualis was greater. Evidently the in-Roence exercised on the advances by alcohol block of the uplanchnics is not effective in all forms of dishetes. Therefore t is not always indicated to compensate for the functional deficiency of one organ by producing a hypofunction of its antagonist In the two remaining cases, in which the givernman was moderate, there was considerable improvement in the subjective state general health, and tiliza tion of alimentary glucose during the entire period of observation (seven and eight months respec tively) In one of the cases the foot had been amnatated for dishetic gangrene, and in the other there was a chrosse sateratical nephritis

The authors draw the general concisions that the method is beneficial particularly when the diabetes is associated with hypertensive directory disinrhances hevertheless, attention is called to the fact that is all of the cases reviewed inhibition of the secretion of the drenal medalla provided greater activity of the pancrestic hormone.

The article contains minerous tables and is followed by an extensive bibliography

M. L. Moses, M.D.

Craig. W McL., and Brown, G. E.: Unifateral and Bilateral Resection of the Major and Miner Spianchic Nerves Its Effects in Case of Essential Hypertension. And Int. Maj. 1914, 54–177.

The problem of the selection of patients in the complete selection of patients with occlusive decision than the selection of patients with occlusive decision of the perspheral arteries for sympathetic gasglessections. It is desirable to determine pre-operatively the probable effects of the operation on the livest

and responses of the blood pressure by temporardy blocking the spinochaic nerves

spectrum (as speciosars between special assessment and the author found that subset special assessment as the subset of the subset of the subset of from to to lo tagen of precedies bytheredeloids, the blood pressure was low-red and the vassperance responses were greatly distributed or obstructive for a subset of the pressure restrictions by this precedure Indicates the neutroperale mechanics of these reactions. Units and effect of lowering of the blood pressure are not noted. Spinal assessment is been considered to the subset of the blood pressure are not noted. Spinal assessment as each to the lower properties destinated the motor and sensory nerves to the lower extractibility to have a subset of the spinal assessment as the single a greater number and additional types of the subset of the subset of the patients.

sympathectomy

The degree of organic hypertrophy of the ana culature of the artenoks as of great importance as predicting the probable postoperative depressor effects. This can be determined by careful examina tion of the retizal arterioles and by notice the presence or absence of speatic phenomena Path ological study of arterioles of specimens of muscle removed for biopey giver decisive information to to organic graduag and the progness. It was be recognized, however that the degree of change in the arterioles is not uniform throughout the body and too exect deduction cannot be made from the changes in one group of arterioles Craig and Breas are of the openion that for operation is a case of hypertension the subject should be less than forty fire years of ga, the levels and responses of the blood pressure should be markedly variable, an changes present in the smaller arterioles should set be advanced, and severe, degenerating charges should not have occurred in the kidneys, heart, or braza These are the major requestes. A basel in d of the district blood pressure of more than 100 H destrable

Essential hypertension is assumed to be the result primarily of (t) a hyperteneture visionistor rester

with exaggerated pressor responses from psychic, with exaggerated pressor responses from psychic, sensory, chemical, or hormonal stimulation, (2) organic hypertrophy of the arterioles consecutive to orgame hypertrophy of the arteriores consciouse to the excessive, rapidly varying intra-arterial stresses, the excessive, rapidly varying intra-arterial stresses, and (3) superimposed renal sclerosis and associated vasospastic reactions in the more advanced stages vasuspassic reactions in the more advanced stages.
The two last-mentioned conditions are believed to the two last-menuoned condition is believed to be peripheral while the first condition is believed to be central Theoretically, operative measures which block the central mechanism from the splanchnic once the central mechanism from the spiantime circulation should be effective in the absence of marked disturbance of the peripheral mechanism This concept of the various stages in essential

hypertension is useful in the interpretation of nypertension is useful in the interpretation of postoperative results. It emphasizes the stage of the postoperative results are emphasizes the stake of the disease in which the most striking improvement from

operation should be obtained

Five patients with essential hypertension of varying severity were subjected to unilateral or varying severity were subjected to unmateral of helateral resection of the splanchnic nerves and onateral resection of the spiancanic nerves and removal of the first lumbar ganglion. In two subremoval of the hist lumbar ganguon in two sub-lects a significant quantitative reduction of the pressor reactions to cold resulted In one subject pressor reactions to cold resulted in one subjective subjective and objective improvement was striking Subjective and objective improvement was striking In the most severe forms of essential hypertension with early renal involvement and advanced organic changes in the arterioles the effects on the blood

In conclusion the authors state that resection of pressure have not been striking the splanchnic nerves is a relatively safe operation the spiancanic nerves is a relatively sale operation. No untoward effects from it have been noted Further application of this surgical procedure is Justifiable in the early stages of the severe progressive Justification the early stages of the severe progressions of essential hypertension in voung persons

#### SURGERY OF THE CHEST

#### CHEST WALL AND REPART

Garnier C. The Surgical Treatment of Farmel Chest (Traitment chirargical du thorax en entrosols) En d'artiep 1914, 4 155

Garnier reviews the history of the various operations performed for the correction of immais chast or "pignon invast. The operation developed by Ompression and the utbor and used in seven cases consists of section of the costal cartalages of the higher! the sixth nits on both sides, T-shaped section of the steraum, wiring of the steraum, and the adjustment of an orthopothe apparatus to undinata traction. The apparatus is wern for from therty-five to forty days. Subsequently a cause it sown for at least two months to maintain the correct posture. Respiratory concludes are presented to increase the closet expansanciaes are presented to increase the closet expan-

More recently the a thor has devised an operation for pigeon breast which does not involve section of the sternum. He has performed it on two children. The nations wears an orthopedic correct before the operation, and the operation is performed with the patient lying on the posterior half of the corset with the anterior half removed. The operation is done in two stages separated by an interval of six to seven days in order to avoid long operation and to provide a gradual decompression of the heart. In the first stage a channel is cut in the upper part of the starnum (not a complete section) in order to mobilize the sternum and the costal cartilages of the third to the eighth ribs are resorted on one side, preferably the left. In the second stage the costal cartilages on the other side are resected and the orthopedic pparatus is adjusted to exert traction. For traction the author has devesed special traction forcers which are at tached to the lateral borders of the sternum. The antener half of the cornet as replaced to easist in holding the traction apparatus in place. This pparatus is not removed until the forty-fifth day after the second stage of the operation. The corset is worn for at least two months more, and resouratory exerclees are prescribed.

The first operation described is long and apt to come shock in the first teamy four hour. Two of the patients subjected to it died from cardia failure and third ded with arms and anotons five days after the operation. With the second operation, parformed in two stages, shock and crutane damags are avoided. The sutting best found that the second operation from the stage of the stage of the stage of the stage in the stage of the stage of the stage of the stage in the stage of the stage operation is indicated in any case is which the thorace deformity compresses the thorace organs and causes pulmonary or cardiac symptoms, whether the deformity is congenital or due to trauma and whether the patient is an adult, an adolescent, or a child. Assault Utypes

Helman, J.: The Study of Benign Neopleans of the Rat' Breast. Ast. J. Cascor. 934, 821497

Benign fibromate and fibro-admonstrate of them, beneat are easily and continuously insupilatelia. When transplanted, they grow no toly in the region of the naturnary glands but also in the ardie may be and the abdomated criticy. The transplanted tenser do not always retain the structure of the spontaneous do not always retain the structure of the spontaneous do not always retain the structure of the spontaneous do not at more less that extracted on sufficiency. Although the growth energy of the tunou document discusses of discusses when the subject to a further has been no constitute of the superior of the region of the

Tunors of this type grow as reachly is addit rate as in young rate. In the former the growth tends toward glandular hyperplants, and is the latter to ward a marked increase of fibroblasts. It was found that three of the six primary fibro-admirests of the breast which were transplanted through four or more generations became actively growing celular tumors with the morphological structure of sur comata. Som of the tumors alcerate through the akin, but the plearation is due only to pressure on the akin and is not an evidence of mahamancy. With a large number of inoculations and the haplantation of two or more fragments 3 mm. In diameter them benign tumors are readily transplantable for many generations in suitable hosts. When the benigs tumors develop into sarcomata smaller and lewer fragments are required for transplantation. One such tumor has been transplanted by the trocar method with the use of 3 mgm of immor substance. for fifty six generations. Of sixteen rats with spon-taneous benegn tunsors, six (37 per cent) yielded tumors which were transplantable for from som to JOHNS K NAME IN D fifty-three generations

Maliniak, J. W. The Prevention of Necroticis. Placetic Repair of the Breast. As J. Swr. 914, 96, 361

More frequent plastic repair of deformed breast depends upon the safety of the procedure and the percentage of satisfactory results. The author emphasizes superially the importance of preserving the

blood supply to prevent accrosis.

The blood supply of the breast is provided by the external mammary branches of the lateral thorsels.

artery, the internal mammary artery, and, to a less There is little anastomosis between these sources, As the areola is extent, the intercostal arteries supplied from behind rather than from the periphery, a circumareolar incision does not endanger it. The precautions necessary to prevent necrosis

are preservation of the blood supply, which is accomplished most safely by the two-stage proaccompashed most safety by the two-stage procedure, the avoidance of undue tension, the prevention of torsion, careful hamostasis, the avoidance of undue trauma to poorly resistant fat, and careful approximation of the skin The most frequent site of necrosis is around the areola or in the flap between the areola and the submammary inunp between the areona and the submanning incision. A thick skin flap permits preservation of the THOMAS W STEVENSON, JR, MD

cutaneous vascular plexuses

# TRACHEA, LUNGS, AND PLEURA

### Non-Parasitic Cystic Disease of the Its Clinical Recognition and Treat-

J Thoracic Surg, 1934, 4 84. Pearson, E F

Pearson reports nine cases of non parasitic cystic disease of the lung in detail and supplements his discussion of the diagnosis, treatment, and prognosis

Case I was that of a male infant eighteen months of this condition with roentgenograms old who had a ruptured balloon cyst with spontaneous pneumothorax, Case 2, that of a gril twenty ous purcumounday, case a, mar or a gur twenty-eight months old with a cyst which had ruptured and caused pneumothorax in a lung with a sarcoma, Case 3, that of a male infant one year old who had a cyst complicated by pulmonary infection, Case 4, that of a gril fourteen years old with multiple uniunat of a giff fourteen years one with municiple that lateral cysts simulating bronchiectasis, Case 5, that of a grid eighteen years old with a large cyst which contained fluid and was infected by the Pfeisfer bacillus, Case 6, that of a man twenty-six years old who had a multilocular cyst infected with the bacillus influenze, Case 7, that of a man thirtyeight years old who had cystic disease associated with bronchiectasis, Case 8, that of a man forty-four years old presenting emphysema with unlateral cyst like areas in the upper lobe, and Case 9 that of a man sixty six years old who had a pedunculated

Cystic disease of the lung causes clinical symptoms of the widest variety

The may simulate chincally and cyst of the pleura foundationally pheumomora, cubercausis, bronchiectasis, lung abscess, empyema, emphysema, The diagnosis is and other chronic rang diseases ands—the history, and other chronic lung diseases physical examination, X-ray examination with physical examination, Array examination with indized oil, diagnostic pneumothorax, and operative exploration The treatment in a given case depends upon the symptoms, number, size, and contents of the cysts, and the presence or absence of associated pulmonary and upper respiratory infections the cysts persist for years with infection successful therapy requires their radical surgical removal

Thoracoplasty Versus Pneumo-

Coryllos, P N Thoracoplasty Versus thorax J Thoracic Surg, 1934, 4 30 A comparative study of the respective advantages and shortcomings and the physiological action of the two outstanding methods of collapse therapy for two outstanding methods of conspse therapy tor-cavernous pulmonary tuberculosis, namely, pneumothorax and thoracoplasty, leads the author to the

The routine application of bed rest, pneumothorax, and thoracoplasty with or without phrenic nerve following conclusions interruption in the order named, and only if the preeding procedure was not successful, constitutes a ceuing procedure was not successius, consumes a "hit and miss" treatment which may lead to loss of time and irreparable disasters Bed rest should not ume and irreparatic disasters necessary to make a be prolonged beyond the time necessary to make a When once this diagnosis is made, no time should be lost in the hope of the remote possibility of spontaneous closure of the certain diagnosis of cavities cavities Collapse treatment should be applied with-

Pneumothorax should not always be applied before thoracoplasty is performed. Each of these proout unnecessary delay cedures has its own indications. As thoracoplasty is a more efficient and expedient method of treatment than pneumothorax, greater discrimination in the respective indications for these procedures should be

In cases of cavities of the extreme apex, in which pneumothorax seldom produces efficient collapse, apical thoracoplasty in one or two stages with resecattempted apical choracopiasty in one of two stages with reservition of no more than three ribs in each stage is the method of choice and no time should be lost in an attempt to induce pneumothorax Good results are obtained in from 60 to 80 per cent of the cases and

the mortality does not exceed 5 per cent When the condition of the patient allows it, thoracoplasty is a better procedure than pneumothorax also for unilateral lesions with marked destruction of pulmonary tissue Very often, in cases of such or pulmonary ussue very orten, in cases of such lesions, re-expansion of the lung cannot be obtained after prolonged collapse by pneumothorax and conunuation of the pneumothorax for life becomes In the cases of toxic or aged patients pneumonecessary

thorax should be attempted first If a successful collapse is obtained, it should be continued, but if the pneumothorax is not successful thoracoplasty should be performed without delay if and when the

In bilateral cases in which the process is located condition of the patient permits it. exclusively in the apices above the second rib, bi lateral thoracoplasty is the method of choice. From three to five ribs may be resected on both sides with no greater danger than in unlateral cases procedure allows preservation of lower lobes, which with bilateral selective pneumothorax is possible

When pneumothorax has not produced a satisfactory collapse and section of adhesions cannot comonly exceptionally plete the collapse, thoracoplasty should be performed without delay as incomplete pneumothorax is dan-

gerous

When pneumothorax cannot be induced, thoracoplarty should be performed without losing time in the hote of spontaneous core

the hope of apontaneous cure.

For cases in which there are basel cavities or cavities located very close to the billum, pneumothors:

appears to be a better procedure.

I Downt Wittens. M D

Jessen, H.: Thorncaphatty in Bilatural Covernous Tuberculosis. J Thornck Surg. 1934, 4-1

Thoracoplasty in bilateral tabereniosis produces a permanent stat of lung collapse. Tuberculosis is always a disease of the entire organism, a general infection with all the properties of such an injection Each cavity is a metastatic filmess. Moreover, tuber culosis is an individual problem ith a constitutional and biological basis There may be a continual change between periods of activity and inactivity Therefore all surgical treatment must be adapted to the present condition and character of the disease The correct time for surgical intervention depends upon the general state of the body. Operation is advisable only after a long period of preparation and treatment Thoracle surgery in tuberculosis deals alth an organism damaged by chronically poisoning discuss and with toxic weakness of the heart and blood vessels. It does not eliminate the discused organ, but establishes the mechanical conditions necessary for fibrotic transformation of the tuber culous tissue

In biliteral cases thorace ungrey is partified only when the pattern is sufficiently able-block to make use of the belp given and the intervention will not could repeated dramage to the existing power of resistance. In no case of lung collapse is at possible to control the totality of the unfactors. Now is this accessing above the purpose of all treatment is deliverance of the oreansem from the resist focus of

intended on, a cavity or a system of cavities. Total thorscopiestry possible in bitaries caver most teheroideas of the cavity of the better side belongs to the secondary state of allongs of the potents of widing to first as eversual sufficient of the potents are widing to first as eversual sufficient to the cavity of the secondary state as eversual sufficient to the cavity of t

with the step of medical treatment above or win the delition of phrenicestromy presented house or partiel thorscopiesty. Partiel thorscopiesty he both lungs is justified in cases of structly localized destruction of the top of both imags belonging to the terthary stage of allergy.

J Dome Waters, M D

Edwards, A. T., and Thomas, C. F. One-Stage Lobectomy for Bronchisetanis. An Account of Forty-Eight Cases. Brill J Surg. 934, 8 a

I the a thore treatment of bronchectass the son-operative procedures, namely postural drainage, bronchoscopic aspiration, and the use of certain drugs for their specific action on the spiracheto, are employed thisby to prepare the patient is operation. Collapse methods such as ordicid pacumothosus, phresiccutosy and to a seal action; partial thorosophusy are filteries ned primarsly as pra-operative preparations for radical extinction to of the disease.

Cautery potumentors as derived by finiting is still the radical operation of choice in cases of broachiectain with associated long absence of large size. The patients with seniorari broachie tass who are particularly benefited are these who daily expectorate large amounts of possible away offensive odos and those who have reported

hamoptysis

The technique of one-stage lobertomy the preoperative preparation, and the induction of fatutraches I insuffation nitrops orbio-crypes sarvibule

are described in detail

In the operative technique a long cursed inchios
is made at the seventh interrupans and curved apead
posteriority. A portion of the seventh rib is reserted
subpersistently to final: the postoperative pain, and
rib spreader is intereduced to give adequate as

possure. The lobe is mobilized and the hilten isolated. The pieura is well protected with gauss automated a aerifactive solution and a strip of gause saturated. Ith 10 per cent exceluse is symposed around the hilten of the affected lobe to amendative the person

endings and prevent reflex effects

The loop of the authors modification of Shes
stone a tourniquet is adjusted to the laken

Particular care is taken 1 spouge the cet surface of the hiture at it divided detail to the terminest. The strong is touched with norramodessad is destroy anatrobic organisms, and the instant of the sain broads are swallbed with pine phenol or up per cent after altest to destroy the morrors seemtence.

Hemostasis is obtained by placing matters surgress of chromic catgut in the stump. The tourniquest is then removed.

No attempt is made to attach the stump to the adjacent lobe. The wound is closed in layers, and a catheter is

The wound is closed in layers, and a catheter is brought out through an intercental stab wound has a ter seal to provide drainage

I forty-eight cases to which this one-stage lobe: toney was done for bronchectus's there are four deaths associated with the operation and there subsequent deaths from complications. Of the fortyone patients he servived, six have residual yraytoms which are slight as compared with their original symptoms and therity-few are yraypotenial.

symptoms and tharty-five are symptomism.

In an appended note the suthous start that since the preparation of this report the operation has been done in other more cases with one of each. The total sambler of cases in a lick it has been performed in therefore fifty-serves, and the total mornality cash and late, it 4 per cent

FRANKLINE E WALITY LIED

HEART AND PERICARDIUM Tuberculous Pericarditis (La péncardite rens, J rubercurous remaining particular transfer tuberculeuse) Rev belge d so med, 1934, 6 727

This article reports observations on tuberculous pericarditis made over a period of several years Beerens, J pencarulus made over a penod of several years.
The author states that, according to the literature, few conditions are more difficult to recognize Difficulty 15 particularly apt to arise in the absence of a history suggesting the condition The most common symptoms are precordial pain and dyspnica The pain may be extremely severe and felt over the lower sternum, neuralgic and referred to the scapular iower sternum, neuralgic and reserved to the scapular or interscapular region, due apparently to pleural inflammation, of an anginal character, or very

The dyspnæa is not constant It usually occurs during active muscular effort Often it is due to slight or intermittent limitation of the amplitude of respiratory movements from the inflammation of the pleura or ments from the minamination of the Pietra of diaphragm By some, the respiratory phenomena have been attributed to the pressure of fluid on the

YOUR TOURS ON Physical examination a precordial rub is usually found in spite of the presence of considerable fluid in the percardial sac. The sound is always fluid in the percardial sac. myocardium superficial, but varies in character and intensity Percussion is of aid in outlining the borders of the The left lung may show

enanged pericardium. The left lung may snow evidence of compression due to expansion of the pericardium This is a valuable diagnostic sign, X ray examination gives the most valuable aid in

outlining the cardiac shadow Rapid changes in outning the carmac shadow usually indicate effusion the size of the heart shadow usually indicate effusion

The electrocardiogram may show some alteration in the tracing, but this is due to associated myointo the pericardium

Four clinical types of tuberculous pericarditis are described, (1) the dry type, which may be acute or described, (1) the dry type, which may be acute of subacute, (2) the latent type, (3) pencarditis with

Infectious pericarditis arising from such conditions effusion, and (4) adhesive pericarditis as scarlet fever and septicemia is easily recognized as scarner rever and separation as easily diagnostic as examination of fluid obtained by diagnostic as examination of min obtained by magnostic puncture will show the bacteria associated with those diseases In the cases of old persons, percarthose unseases and the cases of our persons, percar-dial effusions associated with renal disease may be confused with those of tuberculous pericarditis The differentiation of tuberculous pericarditis from the unicientation of cuberculous pericardius from theumatic pericarditis may be more difficult. Durationally and the state of the state ing childhood and adolescence, pericarditis is usually rheumatic Absence of a history of exposure to tuberculosis and the results of anti rheumatic treatruperculosis and the results of and rupumatic treatment will aid in the differential diagnosis. Examination of the control of ment will and in the uniciential diagnosis Examina-tion of the pericardial fluid may show the tubercle tion of the pericardian multi-may show the tubercie bacillus. Animal inoculation should be done if the

The prognosis in tuberculous pericarditis depends to a great extent upon the progress of the pulmonary organism cannot be found le a great carrier apon and problem to the heart muscle. Cure may sometimes be obtained from rest and diet

The need if the general condition is satisfactory for evacuation of the pericardial fluid depends upon the amount that is present and the embarrass-

Jona, G Cardiac Symphysis, Brauer's Operation (Sinfisi cardiaca Operazione di Brauer) Policlin, ment it causes

A woman thirty-eight years of age, who, five years A woman unity-cight years of age, who, he years previously, had had bilateral dry pleurisy, in February, had had bilateral dry pleurisy. picylously, had had bhateral dry pieurisy, in rebruary, 1934, suffered a second attack on the left side which was followed by dyspnæa, ascites, and adema of the legs On her admission to the hospital she presented the picture of grave decompensation without evidence of a valvular or myocardial lesion but with difficulty in the emptying of the jugular put with difficulty in the emptying of the jugular radial weins, particularly the left, and a smaller radial pulse on the left side A diagnosis of tuberculous

As treatment with rest and cardiac tonics caused only transitory improvement, precordial thorapericarditis was made omy massivity improvement, precordial inoracectomy was decided upon. The favorable factors were the patient's age and good nutrition, the abwere the patient's age and good nutrition, the average of valvular lesions and probably of advanced myocarditis, the good condition of the visceral pamyocaruus, me good condition of the visceral parenchyma as shown by a normal urine, a rapid response to diuretics, and absorption of the ascites, and the absence of other signs of tuberculosis. In and the absence of other signs of tuberculous firshort, this was a case of uncomplicated symphysis in which life was threatened by the general cir-

At operation, the pleura was found adherent to the pericardium and the 2 layers of the pericardium culatory insufficiency were found completely adherent The adhesions over the anterior surface of the heart were broken up with difficulty A portion of the outer pericardial layer was then resected The diagnosis of tuberrayer was then resected the diagnosis of tuber-culosis was confirmed by The postoperative course was uneventful except for

At the time this report was written, six weeks slight fever lasting fifteen days after the operation, there is a slight but definite subjective and objective improvement The dyspnoca, nocturnal agitation, and feeling of weight in the epigastrium had diminished. The cedema had The jugular veins emptied annost usappeared the juguar veins empued fairly well So far, the surgical result was good in that the object of the operation—improvement of diastolic aspiration—had been attained However, the total clinical result was less satisfactory. Persistence of myocardial insufficiency was evidenced by a low radial pressure, oliguria, and susceptibility

In 1929 Torraca collected from the literature 84 to fatigue on the slightest exertion cases in which Brauer's operation was done Three of the pruents died soon after the operation, 15, of the princets died soon after the operation, six during the first six months, and 12, between six during the first six months, and 12, between six during the first six months, and 12, between six months and five years after the operation operative mortality was therefore 4.7 per cent and in 25 per cent of the cases death resulted from persistence or recurrence of the disease. In 85 per cent the operation was followed by improvement

33 cases the improvement lasted more than a year and in I case for sixteen years

In 1931 Lanconaut reported 1 3 cases with an operative mortality of 51 per cent and survival beyond one year in 6 r per cent. In 933, on the basis of 30 cases, Paessier advocated percardier tomy claiming that Braver's cardiolysis is lossifident and its results, although good in peluciple are only temporary However the improvement following Baner's operation was in some cases remark able, amounting to restoration of complete working capacity even in patients who had shown marked circulatory insufficiency M E Moont M D

#### GESOPHAGUS AND MEDIASTINUM

Herzberg, R. The Anatomy of the Abdominal Portion of the Cleophague (De Anatomie des Bauchabecknettes der Spesserockes) Destroke Zische f Chir 1984, 24 265

Special attention has recently been directed to the anatomy of the belommal part of the orsophagus in an attempt to explain blatus bernie and cardiospasm and to determine the operability of diseases of that portion of the resophagus. Hemberg' investigations were undertaken with Hesse and in connection with Hence's operations on man. Methods of mobilizing the abdominal part of the oscophagus were studied on amery-five cadavers and in twenty-two experiments on animals (dogs, cats, and rabbits) X-ray studies were unsuccessful because of technical difficulties Scokusenkos cisseffication of organ types and their relationship to skeletal forms was found of value. This classification is as follows

z. Brackymorphous type primitive form comparatively long trunk (regulopubic distance) ad short less

Delichorsorphous type highest developmental type narrow thorax, long limbs
 Mesomorphous types transitional forms Vari-

ability of races and individuals

The crophaged foramen has between the ainth and eleventh dorsal vertabre. It is not cantl, but an oblique, almost perpendicular, elit. The crouplages is in contact with the dasphragm only on its posterior wall and there for a distance of only from to sem After entering the hustus it shows a carcular so-called physiological, narrowing I the heatre its wall a quite firmly attached to the fibers of the dasphragus by elastic connective tuests layers which form a continuation of the interpleural has ment (Morosow) Opensons differ as to whether muscle fibers pass from the duphragm to the wall of the resonages Rouget, Gillet, Santonni, Wanschow and Thiele have described striated muscle fibers Subarov and Tuddes accept their findings, whereas Trestz, Walker Schweiger Seidel, Mor oxow and Cunningham deny the presence of sech fibers According t Hersberg, striated muscle fibers are present only exceptionally

The existence of an biominal portion of the resophages is no longer doubted. This portion is

completely serrounded by pertuoeum. In sheep four examinations, some of which were saids as embryos, Hersberg failed to find an abdomisal por tion in only one specimen. In the latter the court-agus formed a right agic immediately after in emergence from the histor. The length of the sh dominal portion has been reported vancesly Hera berg loand the average length to be 1 74 cm in sec. and 1 5 cm. in women and the maximum kenth to he 3.4 cm. The length was greatest in pursons of the dobehomorphous type. Age was not lactor but It is certain that pathological changes such as the associated with carchospasm and irritations may be associated with lengthening. In case of cards-spann Hersberg found an elongation to 15 cm and in a similar cause Bier found an elongation to 11 to The verage whith of the belominal portion of the esophages was found by Herzberg to be 18 cm In are cases the limit of distention as between and 8 cm. Herrberg observed that the loci cardiaca at the site of the entrance of the abdomisal portion of the assorbagus into the stomach which was described by His is constant formation which does not disappear even when the stomach is even; He recognizes two types-one characterized by tonelderable depth of the indentation and an acute argie and the other by a shallow indentation and an obtain angle which in some instances is as great as fo degrees. The difference between these two types a practical importance Chaphagogustrotemy, which comes into consideration in the treatment of cardiograms and benign stenoses, can be done in cues of the second type without mobilization if the croopbages is sufficiently long and rasts on the ma phreem, as the anastomouls is made with the corpus of the stomach. It may be done without mobiles tion also is cases of the first type if the anastronesis is made with the fundos of the stomach. In the presence of an incisure of an artermediate type, that th an angle of from 30 to 30 degrees, exercise pognatrotomy is technically impossible mucosa the boundary between the abdominal por tion of the asophagus and the stourch is destinctly

visible. Even to the fetus it is evidenced by an k regular hos o cm long The arterial supply of the los et thoracle agreent of the ersophages through the auterior and posterior orsophageal arteries is better than that of the abdersinal portion (Demer' investigations). The posterior surface is better supplied by the left gastric and left phrene arienes than the anterior surface by the left gestric artery alone. The vescular supply of the lateral surfaces, particularly the left, is much power than that of the anterior and posterior surfaces Mobilization of the lower thoracic portion is easier from the left, as is also entrance into the proper loos connective-tience layer of the mediastiaum Moreover an approach from the left the longer conmusicating branches bet een the thoracic and abdominal portions which run along the right border

are mach better preserved. The cross blood courses t the west commaria ventricali superior and thence to the portal vein In portal stasis (hepatic cirrhosis) there are varicose dilatations which may lead to fatal hæmorrhage during mobilization. Attention is called also to the very disturbing group of lymph nodes in the cardia. The regional lymph nodes for the cervical and thoracic exophagus are the posterior bronchial and mediastinal glands.

The relation of the lower thoracic portion to the two pleural folds is also of importance in mobilization. The right mediastinal pleural fold lies at the level of the seventh and eighth dorsal vertebræ immediately on their dorsolateral surface. At the level of the eleventh dorsal vertebra it extends not only to the side but also onto the anterior surface. The left posterior mediastinal pleural fold comes into contact with the esophagus for only a very short distance, somewhat above the esophageal hiatus, and at the level of the eighth to the eleventh dorsal vertebræ it extends over the esophagus.

In the hiatus the left vagus lies on the anterior surface and the right vagus on the posterior surface. In the abdominal portion of the esophagus and the cardia Herzberg found two types of innervation of the anterior surface by the left vagus trunk. In one there was a rich network of branches, whereas in the other there were only three branches from the main trunk and the cardia appeared to be devoid of nerves. In vagotomy it is of great importance whether the site of division of the vagus is unusually high or low, as is frequently the case. Division below the site of division will be unsuccessful. The right vagus innervates the posterior surface with only about one-third of its fibers. The majority of its fibers course to the right semilunar ganglion.

ever, because of the two or three large communicating branches in the thoracic portion of the œsophagus, it is certain that both surfaces of the abdominal portion of the œsophagus and the cardia are innervated by both vagus trunks. The sympathetic supplies the abdominal portion and cardia chiefly through the left gastric, the œliac, and the left phrenic arteries. It is not certain whether there are communicating branches between the vagus and sympathetic.

The cardia is the inlet of the esophagus into the stomach It is intraperitoneal. It is immobile, not changing its position even in gastroptosis According to some investigators, it is fixed laterally by the hepatogastric and phremicogastric ligaments Honever, there is a difference of opinion concerning this although it is of importance in operative procedures Herzberg believes that only the constantly excentric position is nearer the anterior abdominal wall According to Hacker, the cardia is usually at the level of the tenth or eleventh dorsal vertebra Maxi movic found that in the horizontal position of the stomach it is at the level of the eleventh dorsal vertebra, from 3 to 5 cm to the left of the midline and in the vertical position, at the level of the tenth dorsal vertebra In general, its position depends upon the form of the lower thoracic aperture In persons with a narrow chest and a feminine type of abdomen it is high, whereas in those with a wide chest and a masculine type of abdomen it is low The mucous membrane of the cardia shows a distinct boundary line between the osophageal and gastric mucous membrane

(FRANZ) LEO M ZIMMERMAN, M D

#### SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERIFORMEDA

Desbonnets, G., and Desbonnets, H.: Prevascular Femoral Hernia (La braile crurale privasculare) J de chir 914, 44 697

The most frequent type of femoral hernis peases through the weak point in the femoral lacuna wasorum, the femoral canal bounded above by Pourart a ligament, laterally by the femoral vein, and medially by Gimbernat's ligament Variations of this type of berms include the pectineal, multidiverticular and bisacculated (Cooper's herpis) types. The prevascular femoral herms and the hernia occurring through Gimbernat's beament are rare

In the prevascular femoral bernia the sac passes i front of the femoral vessels. At its origin t runs around the epiguatric vessels, sometimes medially sometimes laterally, and spreads out in Scarpa a triangle It is therefore located more laterally than the smal femoral hernia. This type was first de-

scribed by Arnaund in 768

The precimposing causes of the prevascular femoral herais are found in defects in the fascia transversalis at the orlice where the femoral vessels pass. According to Patel and Moschcowitz, the hernia ca be explained by lacung in the crural scotum. The exciting causes are the usual causes to high other hernie are tiributed -- asting disease pregnancy, laftammations of the lymph nodes about the femoral vessels at their origin traumatisms, potably the surrical traumatism involved in the reduction of consenital dislocation of the bip and deformities such as tiltum of the pelvis leading to deviation of the femoral vessels and traction on the ordice of exit

The berrus is always a "berrus of eaksess (hernie de faiblesse). It occurs in ged or debilitated individuals, and is usually associated with an inguinal berms of the same or the other side

The neck of the bernia is always large, admitting to four fingers, hereas that of the ordinary from t femoral bernus is small. It is limited medially by Gimbergat ligament or the thick fibrous aeptum separation the crural infundibulum from the femoral yeln, laterally by the thopectineal band, anteriorly by the mid portion of Poupart's ligament, and po-teriorly by the femoral vessels. Because of the large neck, symptoms due to strangulation are rare

The trestment of these berme has never been standardized. All of the surgeous encou terus such hernie have improved a procedure lifeh t the moment seemed to give the best prospects of restor ing the abdominal all Most surgeons have made ertical uscusion over the bernial az and trans-

verse inciseon over the inguinal canal

Is the operation performed by the authors the inguinal percach is used in order that the sac may be resected as high as possible and the neck fired f r from the original orifice (Barker's maneuter) The incision is made just hove and parallel at Poupart's hypament. This incision exposes the in guinal canal, Cooper's ligament, and the leser oblique and transverse muscles. Beginning medally the cord is retracted and the lo er border of Poupart legament is fixed to Cooper' legament by series of sutures. Laterally Pospart's ligament is sutured to the aponeurosis of the pages marcie just sufficient apare being left for the passage of the femoral venels Atment F Dr Goor, M D

Gehrks, H.: The Relationship of the Se-Callel Umbilical Admonsts to the Aportise Sweet Glands and Adenosibrosis of the Breat (De Betrehungen der sogenannten Vabeledenome se det apelirate Sch chadrocara and zer Administrati der blamme) Arch f balk & at age ray ter

The anthor examined microscopically sa un billical t mor the size of a chestnet bick occurred in woman eighty-nine years of age grew to this size in peribd of six months, and as removed singlesly At operation, no intra-abdominal complication were found (metastanis from an latrapentance) carrinoms had been suspected). The petiest ded nine months later of pneumonia. Autopay was not done

On microscopic study gland ducts with wide lumina and others with papilla-shaped clevations were found in the center of the tumor In the peripheral portion the gland ducts ere considerably narrower The epithelium varied from cyhadrocal to flat cubical as in large cysts, but, in addition, strati fied cortical cells are found Central and peopletal portions of the glands were embedded in my coma bees imme which also showed muces staining Tested the periphery a continuous transition late groups of sweat glands was demonstrable. The sweat glands

were of the so-called apocrine type
In agreement with Schlefferdecker, the author defines pocrine sweat glands as excet glands in hich the secreting epithelium gives off part of its red bodies in its secretion. In this respect these glash are similar t the mammary glands I contrast to the aprocrime sweat glands are the summons sweat glands in the human body which are of an eccritic nature, that is, sweat glands from which correlies occurs ithout partial loss of the cell component

the male, the apocrine rucat glands are to be found only in the axillar and the arcola of the my plea, hereas in the semale they are destributed much more idely being found in the arille the areole of the appoles, the public region, and the level part of the abdominal skin below the mublicus They re considered ecessory sexual glands and they participate in the menstrual cycle. As the occurrence of apocrine sweat glands in the region of the female umbilicus has been established, the development of the described tumor from these glands was probably entirely spontaneous, especially as this disease, called "umbilical adenofibrosis, occurs only in females The change of the connective tissue into myxomatous tissue corresponds exactly to the changes occurring in the mammary glands during the menstrual cycle At any rate, the assumption that the tumors have their origin in apocrine sweat glands is much more plausible than the assumption that the cystic tubes are so-called heterotopic endometrioid proliferations and the tumors are formed from peritoneal endothelium Moreover, there are other noteworthy similarities between adenofibrosis of the umbilicus and fibromatosis of the mammary glands

(MAN BUDDE) LOUIS NEUWELT M D

Repetto, E Fibroma of the Anterior Abdominal Wall (Fibroma della parete addominale anteriore) Polician, Rome, 1934, 41 sez chir 564

Fibromata of the anterior abdominal wall have been called "desmoids" Although over 1,000 cases of these tumors have been reported in the literature, the author is led to report another case because of

the uncertainty of the etiology The author's patient was a woman thirty years of age who had first noticed a tumor the size of a pigeon's egg in the right lower quadrant of the abdominal wall about eight months before she came for examination The neoplasm was painless and caused no subjective disturbances During the eight months since its discovery it had gradually increased in size Physical examination revealed an ovoid tumor about the diameter of the index finger and about 6 cm long between the anterosuperior spine of the ilium and the umbilicus The mass was fibrous, hard, moderately fixed, and not tender Its surface was smooth When the abdominal muscles were contracted it seemed to be situated behind the muscle planes Pelvic examination was negative, as was also the cutaneous test for tuberculosis

At operation, the tumor was found between the peritoneum and the muscles It was adherent to the transversalis close to the margin of the rectus sheath It was removed with the adherent muscle

It measured about 5 by 2 cm and was well encapsulated except in one region where it was continuous with some muscle fibers. It cut with some resistance. In places the surfaces made by cutting seemed to show a fascicular structure whereas in other places the surfaces appeared plexiform. Their appearance was uniformly that of mother of pearl. No cystic areas or areas of degeneration were noted.

Microscopic examination revealed several characteristic features. In the central zone the bundles of connective tissue passed in varying directions, thus accounting for the fascicular or plexiform appearance noted on macroscopic examination. The blood sup-

ply was poor, consisting of only small vessels. In the vicinity of many of the vessels there were many small cell bodies with little protoplasm and large, round, deeply staining nuclei. In some zones there was an intense perivascular infiltration to the point where the cells were densely accumulated in groups. In some regions these groups were surrounded by normal connective tissue and suggested circumscribed microscopic abscesses. In the peripheral zone of the tumor there was a gradual transition from the connective tissue of the neoplasm to the striated muscle which was attached at this point. In this region, also, areas of perivascular infiltration were noted

In the discussion, Repetto states that fibromata of the abdominal wall occur almost exclusively in females They are most common between the ages of twenty-five and thirty-five years, but may appear at any age Multiple tumors have been found in only 3 per cent of the cases The tumor is usually located in the lower abdomen and on the right side The ovoid form is characteristic As a rule the neoplasms vary in size from that of an egg to that of a small orange, but there are reports of such tumors weighing 17 kgm The tumor usually seems to originate from the sheath of the muscles of the abdominal wall, especially the rectus sheath Frequently it is attached to the bone nearby, the propertoneal fat, or the pentoneum, and rarely with the skin and subcutaneous fat

According to the old theories tumors of this type had their origin in (1) the osteoperiosteal tissue, (2) the perimuscular fat, (3) the internal genitals, (4) trauma, or (5) dysfunction of some of the endocrine glands. The author believes that the neoplasm in his case was due to trauma to the anterior abdominal wall resulting from gradual distention and tearing of the muscles in four pregnancies. He states that in a few cases organisms may gain access to the blood stream during pregnancy and the puerperium and produce a true bacillæmia. Some of these organisms may lodge in the regions where the muscles and aponeuroses are lacerated and cause the formation of microscopic abscesses stimulating the production of new connective tissue

A Louis Rosi, M D

Nordlund So-Called Primary Cryptogenetic or Metastatic Streptococcic Peritonitis (Ueber die sog primaere kryptogenetische oder metastatische Streptokokkenpentonitis) Ann Acad scientiarum fennica, 1933, 38 Series A, No 1

Streptococcic peritoritis should be considered, almost without exception, as the first and usually the only metastasis of a general sepsis. This complication has such an unfavorable effect on the character of the sepsis, which is dangerous even in its absence, that death results quickly and the sepsis rarely has time to form other metastases.

To establish the diagnosis, puncture and bacteriological examination of the punctate should be done In cases in which the course is stormy from the

In cases in which the course is stormy from the beginning, operation is useless. In milder cases

operation may be tried if it can be done in the early stages of the dresse. When the diagnosis is more tain, the earliest nomible isparotomy is indicated.

Streptonectic perfeatitie occurs in both shalls an eliditiru. Of the fifty-serve aceas reviewed by the author, forty-serven were those of solular. The condition is as frequent in constant as in men. In ap per cent of the reviewed case it was preceded by sore throat, and in my per cent of contrast, a cough, or some other perfect of the condition in the contrast and in my per cent by covera, a cough, or some other permotals, and the my permodia, solutions are subjected factors are poermoolia, solutions, or the conditions of the reviewed cases the perticulity was preceded by distribute.

As a rule the course of the disease is atomy from the outnet. In only ay per cent of the cases reviewed was it midd at first. A characteristic feature is an initially high fever revealed expectably by the sectal temperature. The similary temperature frequently given to indication of the temperature of the body as a whole. As a rule the directatory organs are another constitution of the section of the temperature of the body as a whole. As a rule the directatory organs are not recommended in a seriously impaired. Decisionally articled from the beginning and the directation is seriously impaired. Decisionally necessary and the directation of the directation of the conditional and the directation of the direct

Among the most important symptoms is abdominal pain which develops almost without exception in the beginning of the condition and immediately becomes more severe and diffuse or at first is local and later becomes diffuse. Vomiting is an early sign in 50 per cent of the cases. It sometimes begins soon after the onset of the disease. As a rule t is continuous. Often typical peritonatic vomiting does not begin util the late stages. The diarrhora which is considered especially characteristic of peritonitis occurred in only half of the reviewed cases. It was an early sign in harely one-third of the cases in which it developed. Oults often there as constipation is the beginning of the docume. In a few cases constipation developed later. The abdomen is usually distended. As rule there is generalized abdominal tendersess Localized tenderness as rare. Muscular rigidity is rarely absent, but varies in intensity in different cases and at different times in the same case In 11 per cent of the reviewed cases the arine contained sibunus, and is one case there was definite nephrito. In 3 per cent supportaire metastases were lound

The arous is reddened and covered by deposits of first. The abdomes constitute credits which is the beganing as clear but soon becomes cloudy scropersient, or pursuent and about 50cm hold of first in in about per cent of the reviewed cases slight recent changes are demonstratible in the appendix, and in a per cent in the address. These were not the cause, but the results of the density.

In the cases in which operation was done the mortality was 04 per cent and in those is which operation was not done t was 00 per cent Locus Nurswall. M.D. GASTRO-INTESTIMAL TRACT

Nogera, G. The Nature of the Hanling of Surgical Wounds of the Stoomsch to Relation to the Technique of Seture Employed (Sale models, discontransations delle letter thirteepide felle shouars in rapports who between the setura languages). Just stal di ther 934, 36 1

The author first reviews the postoperative complications which may develop from faulty untimes in gastro intestinal surgery citing the literature Among these are peritouitis from infection entering through the suture line, pulmonary complications. hamorrhage, peptic sicer and imperient inperiories of the stome. The incliners of pulmosery care plications reported in the laterature ranges from 6 of to at per cent. The frequent presence in the pleural cavity of the organisms found at the site of operation suggests hamatogenous transmission of the infer tion. Nogara emphasizes that pulmonary complications occur less often when great care is taken in the technique of the operation, but are favored by the anesthetic. He emphasizes also the importance of careful handling of the tissues to prevent the for mation of embols which pray carry injection with them. Hamocrisses may be controlled by accurate saturion. The development of alceration at the site of the stoms is isvored by imperfect apposition of the sencosa and all other factors which interfere with wound healing. Imperfect functioning of the operative stoms is smarfested by the usual signs of gastric obstruction-foul breath, epigastric dilata tion, and greatric distress which require periodical exactric lavage. The suturing is coundered responsible even for temporary malfraction of the anatomous due to local ordens

Became of the importance of these complications the their adectors are operational study of methods of saturing He reports his finshings are reviews the experimental sword of items. It regards as particularly important the reconst work of Martis of and Section who havestigated serves swebods of particularities are studied and Section that the method of Haisteria is followed but the most rapid healing and the fewest complications, that solars of the well in three layers is not necessary and that healing eff the more complications are retarded by this method.

Most gastro-extensioney wounds are satured to the Council method or some variation (kerned Ose variation is the lock-stitch method. While the Council method and its modifications long the naucous membrane together and favor harmonism to the saturation of the saturation which interferes with the autorition of the metods membrane, and the networn which post through the centre with of the lineating remaining the saturation of the metodes membrane, and the networn which post through the centre with of the lineating remaining the saturation of the sat

In the restoration of anatomical continuity the single interrupted sutures have proved most successful and least damaging to the tissues However, because of the excess of mucosa in relation to the underlying muscularis which contracts, an empty space is left between the stitches Delitala attempted to overcome this defect by using interrupted sutures in the mucous membrane and continuous sutures in the submucosa and muscle However, because of the associated tissue damage and the time required for a suture of this type, his method was not con sidered ideal It was therefore necessary to continue efforts to devise a suture which would be simple and extramucosal and which would evert the mucous membrane and arrest bleeding The Lembert continuous seromuscular suture is of this type, but requires separate ligation of the bleeding points

Also satisfactor, in some respects is the method of approximating the separate layers as they are divided with a continuous suture excluding the submucosa. However, while wounds so sutured heal well, healing requires considerable time, sepa rate hemostasis is required, some of the bleeding points are apt to be missed, an unnecessary amount of material is introduced into the wound, and

enterostomy clamps cannot be used

A suture which is extramucosal and inverting, simple, certain, and rapidly executed is that of Donati The technique of this suture is as follows

The surgeon standing in front of, and parallel with, the wound, begins the suture in the lower angle of the wound, introducing the needle into the submucosa just at the level of the mucosa, passing it through the submucosa and muscularis, and bringing it out from the serosa just proximal to the outer edge of the wound He then introduces it a few millimeters from the opposite edge, directs it from the serosa obliquely downward from right to left through the serous and muscular coats to the sub mucosa which the suture is to include completely passes it along the external wall of the mucosa, and brings it out near the cut edge of the mucosa suture is then pulled up and a knot is made knot is buried and the sutured edges are inverted so as to bring the serous edges into apposition Each stitch is made in the same way and the suture from each is drawn up serosa results To tighten the suture and hold the stitch firmly, Donati uses traction on the suture and exerts pressure with a gauze pad on the walls which

The Donati suture is designed to take up all of he is drawing together the submucous layer to the edge of the cut mucosa Unless this is accomplished good hemostasis is not obtained and loose edges which retard healing are left After the completion of this suture an inter rupted seromuscular suture of silk or fine linen is introduced. Catgut is usually employed for the buried inverting suture. In the experimental wounds described this was apparently the method employed as Nogara says that the catgut disappeared slightly sooner than the silk or linen and that both of them

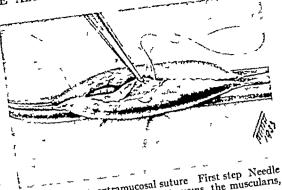


Fig 1 Donati extramucosal suture First step Needle picking up the submucosa with its veins, the musculans, and the serosa of one side

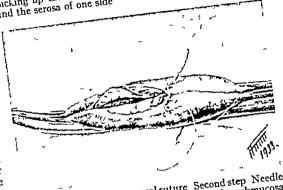


Fig 2 Donati extramucosal suture Second step Needle picking up the serosa, the muscularis, and the submucosa and its veins on the other side.

were still visible on the fifteenth day At the present time Donati applies his suture only to the anterior wall of the anastomosis

The advantages of the Donati suture may be

I Accurate apposition of the two lips of the insummarized as follows cision is obtained as the stitch coming from the muscularis takes in all of the submucosa up to the cut edge of the mucosa and when it is tightened the mucosa and muscle layers are brought to the same level No matter what the degree of muscular contraction or the amount of excess mucosa the apposition is accurate

2 Hæmostasis is always good as the vessels which pass through the submucosa are securely and tightly held, being totally included in the suture

3 An enterostomy clamp may be used to prevent the invasion of sepuc material into the operative field and to produce hæmostasis

The purpose of this article is to report the comparative results in surgical wounds of the stomach sutured by the method of Connell, a continuous lockstitch, and the method of Donati

Nine dogs were operated upon after twelve hours of fasting The operation was performed under local

amenthesia supplemented with morphisa. Three incluions were made on the anterior seriace of the stomach and such was closed by one of the three methods of suturing mentioned Gastro-enterostomy was not done, as Nogara wished to observe wound bealing without the complications arising from nutritional disturbances. Three of the dogs were killed after ave days, three after cight days, and three after fifteen days, and macroscopic and miscroscopic studies were made of the wounds.

On the fifth day after the suturing the line of the extramucosal auture was always regular with per fect apposition of the mucosa and other layers, whereas the line of the Consell and lockstitch sutures was irregular and showed areas of necrods examination are shown in T bis III.

and plomation. The irregularity as more marked following the Connell seture than following the lockstitch sature. The microscopic factors in the three suture lines after five days are summarized in Table L

On the eighth day macroscopic examination showed the Donati enture line to be regular and free from ulceration, whereas in the wounds entered 1th the Connell and continuous lockstitch methods there were evidences of theeration. The aucroscopic

findings are shows in Table II On the fifteenth day macroscopic examination revealed no plemetion along the auture flore and no local congration. The findings of intercornole

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	OMMENT POTTERS	CHAUSEAGE PRODUCTIVE CALIFFE	MANUAL MALENA
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TABLE II MICROSCOPIC FINDINGS IN FUTURE LINES ON EXHIBIT DAY MATERIAL PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR

	CHARLE PRIME	CONTRACTOR LACCIONALE PRINCIPAL	PATHON MOTOR
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foliament.	Separate connective passe reports you of the temporary manner form productive sufficients of the sorty terms of temporary	Supremy County to the report in a fit of the succession of the suc	African de manerar a timos registra- cias. Very lattic automostica el timo minerario.
Marshes and mass	Marked description of the sample gloves for contraction faced great plane. Meanware observate that plane is connective trace larger planes and the server.	Martini demonstrate of the smacks Shore by connectors some topics, plants. Printerings a factories sont the matter and the present region.	Very lattle hyperphase to the search layer Only measurages absente assemble for success fathereness assemble assemble to success fathereness assemble

TABLE III MICROSCOPIC FINDINGS IN SUTURE LINES ON FIFTEENTH DAY

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Constitut | English, M.D.

Zanardl, F The So-Called Enterochromaffin Gland (Sulla cosidetta ghiandola enterocromaffine) Arch

The term "enterochromaffin gland" is applied to a particular type of cell scattered in the mucosa a particular type of ten stattered in the intestinal tube of man and vertethroughout the intestinal tube of man and vertethroughout the intestinal tube of man and verte-brates and characterized by the presence in the cellular protoplasm of granules which are stained selectively by chromium salts and are impregnable by

The morphology of these cells is well settled, but their origin and function are not thoroughly undertheir origin and function are not thoroughly understood. Their clinical significance lies in their rôle in the formation of carcinoid tumors and neuromata

The author reviews the literature concerning the morphology and differentiation of these cells from and the repair of mucosa such similar cells as the cells of the adrenal medulla

According to one theory, these cells represent and pigment cells containing melanin epithelial cells with an external secretory function The author reviews the anatomical and experimental findings which seem to support this hypothesis According to another theory, these cells are cells of nerve origin (like the cells of the adrenal medulla) which have migrated to the intestinal mucosa, but retain their power of internal secretion. This theory seems to have wider acceptance than the first one. The secretion has been compared to both adrenalin and secretion has oven compared to both autename and secretin—to the latter, on the basis of the large number of chromargentaffin cells in the duodenum of certain animals According to a third theory, the cells represent mobile elements of the blood or connective tissue. Some observers claim to have followed them from a connective tissue origin to

The significance of the chromargentaffin cells in pathological conditions of human tissues is not understood derstood. The cells are probably related most intiepithelium. mately to carcinoids of the appendix vermiformis

Zanardi studied the distribution of these cells in They may play a role also in gastritis the various segments of the gastro-intestinal tract of man and animals, the affect of digestion on their number and distribution, their rôle in the regeneration of the mucosa of the intestine, and their occurrence and distribution in the vermiform appendix

In his study of the regenerating mucosa in pathological changes in the stomach such as ulcers, in changed by disease flammations, and tumors, it was impossible to demonstrate a connective tissue origin of the cells The chromargentaffin cells did not seem to take an active part in the regeneration as they were not present in the regenerating tissue However, they were numerous in the zone surrounding the area of destruction and therefore may have had an indirect action In specimens of chronic appendicitis many large chromaffin cells were noted and at times gave the appearance of an intranervous migration suggesting that they may be of ganglionic origin.

Lucarelli, G The Suprarenals in Acute Intestinal Occlusion (Le surrenali nell'occlusione intestinale

The author describes experiments in which he the author describes experiments in which he brought about acute intestinal occlusion in male guinrought about acute into this level and in others at a nea pigs, in some at a high level and in others at a

nea pigs, in some at a night level and in others at a low level, and after the death of the animals made low level, and after the death of the suprarenal glands histological examinations of the suprarenal glands All of the animals died with the same symptoms, but those with high occlusion died after from twelve to twenty-five hours, whereas those with low occlusion

The cortex of the suprarenals showed hyperæmia, survived for minety-two hours hamorrhage, degenerative changes, and a decrease memorrhage, degenerative changes, and a decrease In and irregular distribution of the upon content.

The medulla showed hyperæmia, a reduction of the protoplasm, a decrease in the size of the nuclei of the promphasm, a decrease in the intensity of the staining cells, and a decrease in the intensity of the staining cens, and a decrease in the intensity of the staining reaction for chromafin. The adrenalin granules were greatly reduced in number and those that remained were irregularly distributed. The changes remained were irregularly distributed. The changes in the cortex were circulators and degenerative. In the medulla the greater part of the adrenalin had been eliminated and the capacity for producing adrenalin had probably been paralyzed. As the changes were very much like those seen in

toric infectious diseases, the author concludes that they were caused by the toxins produced by the

Piergrossi, A. Jr Duodenal Diverticula (Diverticula intestinal occlusion

prossi, A. Jr. Duodellai Diverticala duodenali) Radiol med , 1934, 21 875 The author's discussion is based on a review of

the literature and cases of duodenal diverticula he

Piergrossi divides duodenal diverticula into two groups, the true, composed of all layers of the duodenum (although eventually the muscular layer 15 has observed. rarely normal, being thinned out by distention of

the diverticulum) and the false, composed of only the internal layer of the duodenum. In the process of development the latter may result from the of development the latter may result from the former Diverticula occurring on the convexity of the duodenal loop are rare. Those developing on the concavity occur in several positions such as the lateral races of the duodenal bulk about the lateral recess of the duodenal bulb, about the ampulla of Vater, in the concavity of the inferior knee,

Neither the theory that the diverticula are conand at the duodenojejunal angle. gental nor the theory that they are acquired is applicable to all cases Against the theory of a congental origin is the fact that the diverticula rarely become manifest before the second half of life. In favor of this theory is the fact that in most cases there is no pathological lesion which could conceiv ably result in diverticula formation, the frequent association of the diverticula with congenital anomalies, the fact that diverticula of the duodenum have been observed in the newborn, the not unusual occurrence of pancreatic rests in the walls of the diverticula, indicating a disturbance in embryonic development, the fact that the portion of the human embryo which subsequently forms the duodenum is particularly active from the standpoint of development in the young embryo from  $\gamma$  to z mm in length and the fact that there is abundant opportantly for an arrest or disturbance of development, absormal collisies inclusions, and imperfect involvines. Some observers thin that the congenital originatory is replained on an evolutionary least formation occurring normally in the apper intention for certain 5th.

seconding to the theory of an acquired origing pulsion or traction are causal; a agent. Weaking of the bowel all and increased pressure in the littens are assumed. The exheting of the all of the duodenom is greently attributed; the presence of aberrant panerarise tissue; is some instances and to abnormal penetration of the bowel will by blood vessels in others. Sure tissue formation devended in others. Sure tissue formation determined the presence of the bowel will be all when the sure in also believed to be factor. The uncrease in pressure in the bowel kames, while the considered casential is the greenie of these diverticula, is regarded as very important.

Traction di erticula are rare. The tractio may be caused by congesital peritoneal bands or by adbesions secondary to such factors as alcers, cholecys-

titis, appendicitis, or trauma.

Diverticula re subject to nativalegical changes. The latter are iditated by rategation of the Interitial contents or the prosecut of localization to the interitial contents or the prosecut of information produces in similar to that of appendicial. Perforation of a disorderation may result in the formation of a disorderation may result in the formation of a disorderal festula. The presence of as alser may lead to insensial hemorrhage. The frequent association of a directiculum of the first portion of the disorderal subtract rules: the question as to which is the primary lesson.

In directicular about the ampulla of Vater and

In discreticals about the ampulls of Vater and the faferior face of the discretion the frequently associated belazy and praequetic leasons are due to a combination of states of exerction and infection and, in some cases, to a incompetent sphincter of Odds permitting regargitation. In second of his own cases of disorderal discreticals the suitor has found to the competition of the competitio

coest grandesfall evoluces of chrome a specialistic at the x imports of douberful distributed ways a positive disposition to the made of oils by x-ay examination. In the majority of cases symptoms are first manufested during the fifth or sixth decade of the The average age at his the they first occur is fifty sit; years. You all disoderail distributed produce symptoms. The symptoms are due to influentation of a contract of the contract of the

Therefore I the presence of such symptoms the roentgenologist must bear the possibility of duo-

dend diverticulum In suited. The A-ray skader will diverticulum has three fundamental characteristics, constancy under pressure, mobility on pubsition, and persistence (constitues for days) after the substream of barium has passed on. However while the characteristics are weakly of sid in the day noise, they loss their importance in certals cases and consequently must be interpreted. Ith care. The author describes in detail artistics in the typical N-ray findings and discusses the conductor spring time to distorted shadows or absence of shadows, the constructed shadows or absence of shadows the cases of the decident of the conductive of the control of the conductor of the conductor of the distorted shadows or absence of shadows.

The author next discusses the diagnostic difculties encountered in various types of diverticals, considering each group in detail and citing cases

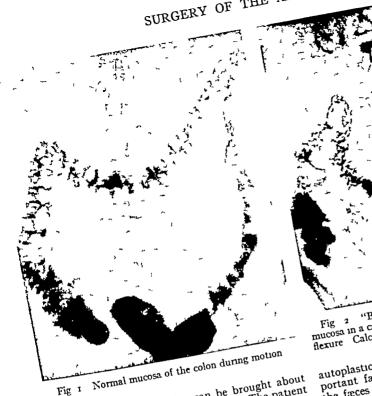
exemplifying each.
The prognosis and treatment depend on the com-

pleastions provoked i neighboring or distant is gam. Medical treatment is, of course porty symptomatic. Surgical treatment is difficult. Often it is difficult even it find the directivalum. The author amploys various surgical procedure, isproducing on the location of the directivalum. It some cases he performs a simple partic-enterationy to place the directivalum at rat; is other, excition or invagination of the directivalum plus gattercetterature, and other, resection of the disobotive contentations and other, resection of the disobotive

T BANKER JOYCE, M D.
Dall'Acque, V and Valuechi, R. The Receipes

Appearance of the Normal Mucost of the Colon (L'ametic radiologics della micosa sormala del colon) Radiol med 934, 765.

The first signs of pathological change can be detexted by examining the assessus membrane rehel of hollow organs as the earliest changes generally occur on the surface of the mucous membrane. Such an examination is made by distributing a thin layer of contrast medium over the inner surface of the organ. In the case of the colon a careful technique is necessary to obtain uniform destribution of the contrast medium. The patient is prepared by giving obve oil as a purgati e for one or t o days before the examination. Saline solutions are two irritating The thet should be chiefly liquid. The exaque coems is preceded by one or to desiring coessis of arm water, the last one being given one or two bours before the opaque enems to allow time for absorption of all of the water Lither barism or colloidal therhum premarations may be used as tratrust mecha. T. prevent spasso and ever-expansion the field is allowed to flow in under low present If functional spasons occur t the spinsoters they may be errorms by changing the patients pos-tion or by massage. As soon as the crecum is filled the enema is 10pped. The crecum should not be ver-distracted as otherwise the last loop of the fieum may fill and interfere with the clearness of the pic tures. Sometimes retrograde filling of the ppendix



"Braided ribbon" appearance of the colonic rig 2 praided ribbon appearance of the left colonic mucosa in a case of mucous colic Prosis of the left colonic flexure Calcified cysts of the liver

takes place If desired, this can be brought about by light massage over the cæcal region The patient is first examined in a prone and then in a supine position All the segments of the colon are examined in all projections so as to obtain a three dimension image For a special study of the rectum and sig moid the patient may be examined standing. For examination with the walls of the intestine collapsed, only from 250 to 500 c.cm of contrast liquid are necessary. This amount fills the lumen without discordance of the second of the tending the walls However it is advisable to make an examination first with the intestine distended in order to study the tonus distensability, and elas tucity of the walls and any obstacles to distention The colon should then be examined again after evacuation of the opaque enema Insufflation of gas may be useful as a supplementary method for the examination of stenoses or serious injuries of the walls This generally obliterates the mucous membrane rehef, but shows cancer nodules and polyps

A general roentgenogram of the whole colon is first taken and special segments are then examined The use of the Potter-Bucky diaphragm is invery clearly dispensable in roentgenograph, of the large intes-

tine

In the normal living subject the mucous membrane presents a complicated network of folds which are not fixed and static, but change constantly, adapting themselves to functional requirements They are dependent to only a very limited degree on contraction of the muscularis propria This active

autoplastic capacity of the mucosa is a very important factor in digestion and the propulsion of the faces along the intestinal tract. It makes the mucosa a definite organ with a specific function coordinate with that of the muscle layer

The size, number, and arrangement of the folds are affected by all the functional changes of digestion including turgor, secretion, and vascularization of the mucosa. Under normal conditions the folds can be made to flatten out and disappear by external pressure Under pathological conditions they may become rigid and inelastic. In the transition stage between the rest and movement the mucosa presents an arborescent appearance. The simplest folds are the longitudinal type In the presence of this type the mucous surface is reduced and there is only

The longitudinal folds push the intestinal contents They are seen chiefly in the descending slight absorption colon and sigmoid and at the contraction rings The transverse and arborescent folds are more complex and are seen in segments with greater functional forward plex and are seen in segments, with greater functional activity such as the cacum and ascending and transverse colons In the rectum the folds are arranged Their caliber is larger than in other longitudinally

Knothe describes as physiological a type of relief which is rarely seen in normal subjects. It is the segments of the colon same as that observed in the so-called irritative condition, but unlike the latter it persists only for a few seconds and is then transformed into one of the other types Knothe believes that it is due to an energetic contraction of the whole musculature of the large intentine as a stimulus to defecation. It

is called the contraction type.

In increased tonus of the vagus whether spontaneous or brought about by drugs, there is a com-plicated design which Knothe calls the "irritative or "braided ribbon type According to Gilbert and Kadruka, however the braided ribbon type is only a variety of the arborescent type which is caused by evagerated neuromuscular tonus and not by inflammation. The authors also re of this opinion Evacuation of the enema is preceded by general contraction of the musculature hich produces a picture very much like that of the irritative type, When this picture is presented a careful examina tion should be made for pathological conditions The authors observed an example of it is a case of transdisphragmatic bernia of the left flexure of the ACHERY GOIL HOMEAN M D

Werlill, L. B., and Walleca, H. L. Acuts Appendi citts. Edulwyl II J 934 4 157

This article is a statistical analysis of \$,000 cases of acute appendicitis treated during the ten-year period from 10s t 103 at the Royal Infirmacy the Royal Hospital for Sick Children, and the Leith

Hospital, Edmburgh The athors and that the number of cases of acute poendicitis admitted to homitals has increased considerably during the past few years, but that the number requiring drainage has been steeduly decreasing. While the mortality has probably fallen slightly during the past few years, it has remained constant during the past four years. The disease is more frequent and more senous in males than in females The average age of greatest incidence is about nise-tess years. The verage general mortality is about s per cent The mortality varies from per cent in simple uncomplicated cases to between 17 and 19 ner cent in cases of frank general perstonitis. Cases are now admitted to hometals somewhat earlier than formerly. The death rat increases with the dura tion of the filness. Surty five per cent of the fatalities occur within one week and 82 per cent within tw weeks. The mortality is definitely higher at the extremes of title. This is in agreement with the observation that the complexied cases are more common at these age periods. Of the complexitions, the respiratory diseases and postoperative obstruction have the highest mortality

IOMOS W NURUM, M D

Getellier, J., and Write, A. The Pathogenesis and Treatment of Praliferating and Standard Proctitis (Pating'sie et treitement des rectries prohiferantes et stémenantes) J de cher 934, 41 \$54

thors divide cases of proctitle fato ( ) those with narrowing of the rectal lumen accompauled by olceration, fatule and aboves ( ) those (th similar changes accompanied by elephantiasis of the scrotuse lable majors, or perineum (g) those

of proliferating proctitis before the stage of rectal stenous and (a) those of rectal narrowing before the development of the lesions of proctitis.
Of 351 cases in which an etiological study was

made, the Wassermann reaction was positive in only 37 and of 74 cases in which careful search for the gonococcus was made, that organism as found in only 4 Whole tuberculosis must be considered among the possible causes of the condition and late the tobercle beeling is occasionally found in the involved region, the authors call attention to the rarity of profilerating and stenosing proctitis in mostors for the treatment of tuberculous Dysentery and ulcerative proctocolitis may be pathogene factors in some cases, but these cicatricial lesions are not considered in this report. In a cases of rectal stenosis the a thors holated the streptothrix

Of sy cases of proliferating procities before the stage of diminution of the lumen, the Frei resction was positive in 17 questionable in 2, and negative in 3. Of \$55 cases with actual atenders, it as positive in 23, negative in 13, and questionable in o

The authors present statistics based on of these in which the rectum was removed and 3 in which coloutomy was done. Of the former operative death occurred in 10, recurrence of the stricture in 72, recurrence of a supportative proctitie in a impreve-ment in 7 and cure in which the Frei test became negative in only a.

In considering the pathogenesis of recurrences, the authors point out that the lesion is a perirection rather than lesson like the rectal mucost, and that therefore the so-called recurrence following amoutation is in reality continuation of the process. They state that in cases of problemating processes the lesion should be tracked by general and specific therapy. For cases of stenoris methan-cal dilatation is t. be condemned as painful and dangerous Disthermy will relieve the stenoris and reduce the accretions. However, this treatment also may be associated with danger. The authors report s fatalities from peritonitis and phlogmonous gangrene following its me. The value of bradiation is disputed The thors recommend colostomy for amelioration of the symptoms, but emphasize that It will not reset the progress of the descare. They state that hen complications are present, colostomy should always be done and should be supplemented by such additional measures (drainage of bacteers, débridement) as the complications demand. In general the treatment of the disease should combit of conservative measures it's the possible addition WILLIAM C BECK, M D of colomour

Bowles, H. II and Fricks, R. E. Primary Rectal Carcinoma under Radiation Treatment. A Statistical Raview of SM Cases. Am J Ravel good 954 5 655

The authors present at tistical data based on 300 cases of carcinoma of the agus, rectum, and rectosismold seen early to their experience with radium and roentgen therapy at the Ms) Clinic. The surgical and radiotherapeutic techniques employed

in these cases were representative of the time On the basis of their findings the authors state that in cases of carcinoma of the rectum, anus, and rectosigmoid surgical intervention is most important rectusignioid surgical intervention is most important and should be the first consideration. In some cases colostomy is essential It should always be considered as a means of establishing a permanent or In selected cases, adequate radiation in every case an attempt should be made colostomy to estimate the grade of malignancy and then to decide on the plan of attach Therapeutic irradiation, especially radium therapy, has a distinct place in the treatment of carcinoma of the rectum, anus, and rectosigmoid Pre-operative radium therapy should receive special consideration and, when employed, should be followed by a period sufficiently pioyeu, should be followed by a period sumclearly long, probably from eight to twelve weeks, before surgical intervention is attempted Radium therapy is of value also as a palhative procedure in cases of inoperable and recurring lesions at least one wellplanned radium treatment should be given degree of palliation varies, but nearly all patients will be benefited somewhat Radium therapy as a postoperative measure has a limited field of usefulness, but should be employed at least for all lesions of a high grade of malignancy

Roentgen therapy is of value, and with the in creased voltage of the present-day installations, should become of greater value, especially in cases of lesions of the higher grades of malignancy

Since rectal polyps may undergo carcinomatous degeneration, adequate treatment or removal of these lesions may be classed as a procedure to prevent the occurrence of carcinoma of the rectum

In conclusion the authors state that the combination of surgery, irradiation, and medical treatment should greatly reduce the surgical mortality and improve the immediate and late results

### Anal Achalasia and Megacolon Guy's Hosp Rep, Lond, 1934, 84 317

The author has seen thirty-two cases of megacolon in private practice and eight in hospital practice The condition is as common in adults as in children, but in adults it is found with about equal frequency in the two sexes whereas in children it occurs almost exclusively in boys Although Hurst formerly believed that there is a sphincter at the pelvirectal flexure, he is now convinced that no such structure He states that under normal conditions faces accumulate in the lower end of the pelvic colon and enter the rectum only immediately before defectation. Like the rest of the alimentary tract, the pelvic colon, the rectum, and the internal sphinc ter of the anus have a double nerve supply, sympathetic from the second, third, and fourth lumbar ganglia and parasympathetic from the second, third, and fourth sacral roots believes that, and fourth sacral roots believes that the primary factor in the pathogenesis is usually achalasia of the sphincter ani—failure of

the sphincter relaxation which normally occurs with the arrival of peristaltic waves on their passage down the pelvic colon and rectum in the act of defacation The attempt to overcome the resistance offered by the closed anal sphincter produces increased penstaltic activity and gradual hypertrophy of the walls statuc activity and gradual hypertrophy of the walls of the rectum and especially those of the pelvic The distention of the pelvic colon results in an increase in its length as well as in its diameter Sooner or later its upper extremity usually reaches owner or later its upper extremity usually reaches the left dome of the diaphragm Slight dilatation and hypertrophy are often present in a part or all and hypertroph) are often present in a part of an of the rest of the colon Without doubt, megacolon is caused by a disturbance in the normal balance between the sympathetic and parasympathetic nerve supply to the sphincter The author believes that the disturbance of innervation results in underactivity of the parasympathetic, and that in most cases the parasympathetic deficiency is confined to the fibers supplying the anal spincter If, at the onset of dilatation of the pelvic colon in achalasia of the anal spincter, the fold of mucous membrane at the pelvirectal junction is unusually prominent, the dilatation of the immediately proximal part may exaggerate the kink, producing a secondary obstruction In some cases anal spasm may be associated

In the majority of the cases reviewed the sigmoidoscope could be passed its full length of 12 in withwith achalasia out meeting resistance and endoscopic examination showed the end of the instrument in the center of The diaphragm is pushed up by the dilated and an enormous cavity

elongated pelvic colon, and in young children the abdominal wall is pushed forward. The displaceand ment of the left half of the diaphragm into what is normally part of the thoracic cavity simulates eventration of the diaphragm due to maldevelopment of its musculature, which is relatively less On roentgenological examination of the patient in the erect position before the administration of an opaque meal, the possibility of megacolon is at once suggested by the discovery of eventration of the diaphragm. The unusually high position of or the disphragm presents a striking the left dome of the disphragm presents a appearance When a gas-containing cavity is seen under the right as well as under the left dome of the diaphragm the diagnosis of megacolon is certain The exact anatomical condition present can be recognized only with the use of an opaque enema Because of the considerable overlapping of the different segments of the bowel it is essential to watch while the fluid is being run in The size of the colon after the enema is merely an indication of its disten-The opaque meal is of little diagnostic aid, but may be a valuable corrective of conclusions drawn from the findings made with the opaque The small intestine is always normal, and in most cases there is little or no stasis up to the Megacolon is compatible with good health The end of the iliac colon

author deploies the growing tendency of surgeons

to perform a sympathectomy as soon as the diagnosis is made. If states that in most cases relief may be given by non-surgical means. It should be remembered that a colon which has been over distended for any length of time remains permanent by over-distended. The chief object in the treatment is to lessen the resistance offered to the passenge of faces and gas by the closed nal sphincter This can be done best by the latenduction of a conical chony bough every morning but after the first attempt to open the bowels. The bough should be pushed in slowly as far as it will so without causing discomfort and left in position for half an hour When attacks of pain and distention, presumably due to partial volvulus, recur in spite of treatment the passage of a flatus tube and, if necessary the administration of morphia and atropine almost always give relief. In some cases the diministration of morphia and atropine may be pecessary in addi-tion. Numerous reports of successful sympathec tomy have been published, but it is still too early to say whether the results will be permanent. author has not yet seen a case of meracolon in which he has found it necessary to advise sympathectomy but states that he would not hesitat to advise the operation if he had case in which sufficient improvement did not follow non-operative treatment WALTER II NAMED M D

#### LIVER, GALL BLADDER, PANCHEAS, AND SPLEEN

Hampson, A. C.: Jaundica. Practitioner 934, 33 gl4

Hampson discusses Jaundice on the bests of McAes's simple classification of the condition into the hemolytic, toxic, infective, and obstructive types II states that whereas well defined examples of each of these types are frequently encountered, combinations often occur. The value of the van dan Bergh reaction in differentiating two types of billroben is deceased. It is emphasized that in every case of jaundice in which surgical procedures are deemed expedient great care should be taken in charging the turns for operation. When the laundles is faronstant it is best to operate during a remission. When Ever function is poor I should be improved in such as possible. The phenotetra-ledophthale test is suggested as probably the best criterion of Il er function. The civiling time should be excelully studied and any delay abould be treated. In hemolytic number is which splenectomy may be indicated, transfusion may be of great value RALTER H NAMES, M D

Pagliani, F. The Behavior of Calcium in Bone After Total Exclusion of the Bile (Sci competasersis del calciu selle sets dopo derivazione totale della bile). A. see d. chr. 934, 3, 786

The author reviews the literature and experimental evidence relating to the part played by bile in calcum metabolism, is post metabolism, and the scid-base equilibriers, calling attention particularly to the changes observed in bose by Doven in 1900 and by other investigators unbecomely

He then reports the findings of the one study of the effect of excission of bids on the tendent of the effect of excission of bids on the charlest on the effect of excission of bids on the dops the cardiodde the bids by recection of the bids dart and choiceratotomy and at the same these transvert fragment of boos from the least bid in the chesical matter and the constraint of the contract of the

again removed for chemical analysis

Comparison of the findings of the chersical eastyes of the bone removed during the latervention and of bone removed at necropsy revealed a dimination is the calcium content. The decrease is the calcium as in direct proportion t the length of the period of survival and was particularly marked in the animals that survived longer than to mouth The organic matter was increased while the ask was decreased. N gross pathological changes ere found in the skeleton at necropsy. The recutges changes were marked only in the animal that our vived one hundred and twenty-six days in this animal there was a define hanness throughout the bone shadows. A similar harisers was noted in the case of the dog which survived one hundred and filteen days, but was less pronounced. As lavestigators who noted serious bone lesions and spontaneous fractures observed animals that survived from six to ten months, the anthor attributes the absence of marked bone changes in his animals to their short survival

Pagiani concludes that complete exclusion of bile deprives the expurison of an essential element, the turbs the acid base balance, lunits the absorption of calcium from the interdual tract, and causes a present of declarification. I hope Causa Ravey.

Harding, H. R. The Secretion of Muces by the Epithelial Orla of the Gall Eladder and the Experimental Production of Macroccia, Soc. J. Surg. 1544 555

The success of the gall bladder has slope hyperised large columnar or pressured cells throw his fidelit of varying height according the degree of distention of the organ. There are no causated differences in the pressures et more per large differences in the pressures of the pressure of the collection of the pressure of the pressure

These vary greatly in number in mucicarmine inese vary greatly in number in different gall bladders and different parts of the same organ, but are always present in normal tissue It is suggested that they are formed in the

It appears probable that in the production of a mucocele of the gall bladder in man several factors region of the Golgi body nucoccie or the Ball bladder in man several factors play a part, viz (1) obstruction, commonly by 2 pray a part, via construction, commonly by testone, (2) absorption of the bile contained in the stone, (2) absorption of the one contained in the vesicle, or its expulsion by a mucous secretion before obstruction is complete, and (3) a mild continued obstruction is complete, and (3) mild continued inflammation, probably bacterial but with organinnammation, probably bacterial but with organisms of a virulence too low to produce a purulent reaction This conclusion agrees with that reported

by Illingworth and Dick in 1932

### Short, A.R., and Paul, R. G. Torsion of the Gall Bladder Bril J Surg, 1934, 22 301

The authors report three cases of acute torsion of the gall bladder and give briefly the histories of fifty cases collected from the literature They state that the condition occurs most often in elderly It is characterized by acute pain and vomiting followed within a short time by marked collargement of the gall bladder which renders that organ palpable The palpable mass appears and

The torsion is favored by the presence of a mesentery or short attachment of the gall bladder In the authors' three cases only the cysuc duct and disappears neck seemed to be attached to the liver and fundus were free The authors suggest that the normal peristalsis of the transverse colon might cause such torsion by carrying the gall bladder in an anti clockwise direction. They cite the great frequency of torsion in an anti-clockwise direction. quency of torsion in an anti clockwise direction in the reviewed cases Gall stones are apparently not

As treatment, the authors advise early cholecystectomy In the thirty-nine reviewed cases in which an important factor the results of operation were reported there were

### Cholecystitis Without Stone five deaths Mackey, W A Cholecyst Brit J Surg, 1934, 22 274

In a review of the literature Mackey found that, according to the experience of a large number of surgeons, cure or improvement can be expected after cholecystectomy in nearly 90 per cent of cases of cholehthasis and in more than 80 per cent of

He concludes that the majority of surgeons have cases of cholecystutis without stones come to regard biliary colic as a symptom which definitely implicates the gall bladder and to believe that if colic has occurred a satisfactory outcome from cholecystectomy is practically assured fact, in the estimation of the prognosis this symptom has come to be considered of greater importance than the pathological changes that may be present in the gall bladder

In order to formulate an opinion on these problems Mackey critically reviewed 243 cases of iems mackey chucany reviewed 243 cases of choles-cholecystutis without stones and 21 cases of cholesterosis of the gall bladder with stones in which cholecy stectom) was performed during the ten year period from 1922 to 1931 Follow-up studies year periou from 1922 to 1931 Follow-up studies were made carefully, and all of the pathological ma-

From his findings Mackey concludes that in cases of cholecy stutis without stones cholecy stectomy has terral was re examined a mortality of 3 per cent, cures the symptoms in 30 a mortant) of 3 per cent, cures the symptoms in 30 per cent of the cases, results in improvement in 30 per cent of the cases, results in improvement in 30 per cent, and is followed by unsatisfactory end per cent, and is ionowed by unsatisfactory end results in 37 per cent. He states that no single test is infallible, but in the individual case a study of the chmcal history, of the cholecystogram, and of the microscopic sections may each yield information pointing toward or away from the gall bladder. To pointing toward or away from the gain plaquer 10 establish a diagnosis of cholecystitis the history must be typical and include Pain, and the cholecys must be cypical and mediate pain, and the choices's tographic changes must be definite cographic changes must be definite processoric thanges are probably not significant unless they are

In the individual case the results of surgical treatment of cholecystitis without stones are relatively unpredictable even by the most modern laboratory fairly gross unpremiciable even by the most modern ribotatory procedures. It is certain, however, that they will procedures It is certain, nowever, that they will not be so good as those obtained in the presence of gross organic disease, in which, as a rule, the sympgross organic disease, in which, as a rule, the symptoms are clamant and the relief after operation is dramatic

# Patey, D. H. The Experimental Production of Cholesterosis (Strawberry) Gall Bladder Brit

In experiments on rabbits the blood cholesterol was raised by feeding cholesterol and at the same time attempts were made to produce inflammatory changes in the wall of the gall bladder by pinching the organ with forceps, puncturing it with a hypothe organ with forceps, puncturing it with a hypo-dermic needle, ligating the cystic duct, or injecting short chained streptococci intravenously Short channed Suspicioned increvenously Later, sections of the gall bladders were stained with Sudan III and examined with the polarizing micro-

In the animals in which the inflammatory reaction was confined to the serosa, the deposits of cholesterol were also limited to the serosa Deposits of cholesterol similar to those in the chronically scope inflamed gall bladder were found also in other chronically inflamed regions such as the surgical incision of the abdominal wall and adhesions about the gall bladder Ligation of the cystic duct before the feeding of cholesterol did not prevent the deposition of cholesterol in the inflamed gall bladder. The content of cholesterol in the blood was always higher

than the content of cholesterol in the bile The author concluded that in the hypercholesterolized rabbit cholesterol is apt to be deposited in the chronically inflamed gall bladder from the blood His findings are against Illingworth's conclusion that the cholesterol comes from the bile and is deposited because of a breakdown of the normal absorptive mechanism Pater believes there is little evidence to support the theory that choice. terrals is due to a breakdown is a normal cholesternlsecreting mechanism.

The indings in the experiments reported suggested no relationship between the cholesterous

gall bladder and gall stones
In discussing the application of his experimental findings to man, Patey mys that if the cholesterous gall bladder represents merely the deposition of cholesterol from the blood, then, provided the func tional tests of the sail bladder are satisfactory and the organ appears normal, there is no more indica-tion for choice references on account of the condition Arr se then for the removal of any other santhoms tous area Cast O Lames M D

Masciottra, R. L., and Chiless, R. V Acute Gdessatous Pancreatitis (La pancreatite agoda elemeton.) En mil -paint de paiel femenen, 214. 393

The scute ordenatous pincrestitis described by Zoepiel, Broon, and Couvelsire is an affection of the pancreas characterized by an acute ordenatous infiltration—pagently diffuse—of that organ with involvement of the adjacent peritoneum. It presents a definite clinical perture. The authors who have had an opportunity to study three cases of the condition, compare their findings a th those in sixty nine cases collected from the literature. They report their cases in detail, including the laboratory roent genological, and operative findings

Patients with scute ordernatous pencrestitis often give a Mistory of "hepatic colic or dyspepsia, but the onset of the charace is scute with severe, steady stheral pain in the abdomen which sometimes is most marked on the right ade and is often accom-panied by vomiting. The vomitus may be bile stained. The scute track may subside, but as a rule a heresormagic pascreatitis develops. Some-times there is alight lever. Jaundier is present is varying degree. There is usually diarrhos. Prostution, even shock, may result. The abdomen is tense, rigid, and often distended. On deep palpation, especially in the right upper quadrant, it is spattle. Tests of the function of the pancress are incoach sive. Roentgen signs of paterratitis—an angulation and displacement of the duoderns wave been

described by Bonner That the clinical picture may ware decidedly is evidenced by cases cited from the literature. A pre-operative diagnosis is often impossible. The nature of the condition may not be recognized even at operation sales the surgeon bears the possibility of the disease in mind. The etiopathogenesis is obscure Laboratory experiments have yielded indefinite or contradictory results. From the standpoint of the penenous three forms are to be dutterefebred: (1) a subscute fatermittent type, (2) an scate type with a violent onset, and (1) a superscate type with a very grave outlook.

The treatment radicated is surgical and should be directed primarily to the binary tract. As a rele it is cholocystectomy. In the postoperative treat ment the sugar chlorides, and ures of the blood should be checked up. Emmore T Latery M D

James, R. M : Pancreatic Fistule, Report of a Case: Cure by Pancrestogustrostenry Brill J Sury 106.

James reports a case of pancreatic fishib which followed operation for scute hemorrhagic panereststra After the fatule had ducharged for six months. drainage became alight and a pencreatic cyst formed At second operation the cyst was marsoplahaed The fistule thus formed continued to drain about 11 to of clear finled dauly At a third operation the fatale was implented into the stometh. Complete recovery East Garage, M D resulted

#### **GYNECOLOGY**

#### TITERUS

Bonney, \ The Principles That Should Underlie
All Operations for Prolapse J Obst & Gynac
Brit Emp, 1934, 41 669

The author precedes a discussion of the different types of prolapse by a detailed description of the supporting mechanism of the vagina. He states that there is a constant tendency for the vagina to evert when the intra-abdominal pressure rises above the atmospheric pressure, but that under normal conditions there are several factors which hinder eversion or prolapse. Prolapse denotes failure of some or all of the factors in the protective mechanism

For successful results in the treatment of prolapse the surgeon must ascertain before undertaking the operation which portion of the supporting mechanism has failed. No one operation is applicable to all types of prolapse. Every operation for the condition should have as its object the restoration of the part of the sustaining mechanism of the vaging which is at fault. Henry S. Acken, Jr., M.D.

Frankl, O The Mucosal Vessels of the Bleeding Uterus (Ueber die Schleimhautgesaesse der bluten den Gebaermutter) II ien klin II elinselir, 1934, 2 838

We know today that the changes in the mucosa of the uterus take place under the influence of two hormones, folliculin in the first half of the cycle, and progestin or luteohormon in the second half. As secretion processes occur in the uterine glands even in the first phase, the author suggests the designation "evolutionary stage" for the first phase and "transformation stage" (Clauberg) for the second phase In the second phase three layers may be differentiated in the mucosa, the basalis with narrow inactive glands, and the functionalis of Schroeder which is divided into two layers, the prædeciduale compacta on the surface through which only the excre tory ducts of the glands pass and, beneath, the spongrosa The blood vessels of the mucosa show cyclic changes paralleling those occurring in the glands In the beginning of the evolutionary stage the mucosa is poor in vessels and its vessels are narrow and thin walled Even at the end of this stage its vascular supply is not very nch However, under the effect of the luteohormon a progressive increase of vascularization occurs so that at the end of the transformation stage numerous very wide vessels similar to those of the glands are present The transformation is therefore not the result of hyperæmia, but due solely to the effect of the progestin The physiological progress of this vascular cycle may be disturbed by ovarian disharmonies, disturbances of the general circulation, local mechan

ical influences (such as may be caused by the pressure effect of benign tumors), inflammatory, degenerative and destructive processes, and by constitutional peculiarities. In addition to persistence of the follicle, sudden incomplete ripening of the follicle may cause a hyperplasia

The vessels of the hyperplastic mucosa are extraordinarily numerous and very wide. They run irregularly and are not vertical to the epithelium. The vascular changes may be the only sign of the disturbance in hormone production. As they may lead to thromboses and necroses they may also cause hæmorrhages Therefore the hyperæmia associated with hyperplasia of the mucosa is never the cause of the mucosal changes but is the result of an excess of folliculin in the absence of luteohormon. In cases of myoma also, the mucosal vessels are enormously dilated and may develop into the form of blood sinuses The vessels of polyps usually have thick walls and wide lumina. In adenomyosis the vessels are enormously dilated, show an irregular arrangement with spiral windings, and have thickened walls During the puerperium there may be considerable bleeding from widened vessels in retained islands of the decidua. Utenne hamorrhages which are so fre quent and sometimes not easy to understand demand a closer study of the blood vessels of the uterine mucosa than has been made to date

(FROMMOLT) JOHN W BRENNAN, M D

Cotte, G, and Mathieu, J Cases of Spontaneous Phiebitis Occurring During the Course of Development of Uterine Myomata (Quelques cas de phiébites spontanées au cours de l'évolution des myomes utérins) Gynée et obst., 1934, 30 200

The authors discuss only phlebitis developing in cases of utenne myoma before the institution of treatment This type is quite rare. Although in most cases the myoma has already become manifested by hæmorrhage or other signs, in other cases the phlebitis is the first sign. The authors report four cases of the latter type. In three of them the phlebitis was very evidently due to infection. In one of the latter it developed during an attack of pulmonary congestion In the two others the myoma was of the anæmic type and the bleeding resembled the secondary hæmorrhages occurring in infected wounds In a case with unnary disturbances the colon bacillus was found in the urine and it was probable that, as in certain cases of postoperative phlebitis, the infection was of intestinal origin

The authors have seen only five cases of the type described in a period of fifteen years and believe that the present-day use of physiotherapy in cases of metrorrhagia and the early performance of myomectomy will probably decrease their incidence

In note of the cases reviewed was the famour large enough to came compression. In spite of limitediate immobilization, the application of leeches, war chockerapy and the use of all other known ramedies, the philebiths in all of the cases moved from one side to the other and is one case it involved even the

upper limb.

Philedist due to compression occurs in cases of large fibronais and produces more or less marked remons distation on the surface of the involved limb. It is characterized by rapid ordensa, became of fewer, and only slight pain. Philation reveals a hard cord along the course of the suphenous or femoral with, which is evidence of versous obliteration.

The phishitis of infection, on the other hand, may lavelve any vein of the body. It develops suddenly with severe pain and fever. Suppuration may occur if the bacterium is sufficiently virulent.

Because of the danger of embolum, most surroons believe that in cases of phiebitis due to compression it is best to delay intervention until the phiebitis has subsided. For cases of phiebitis due to infection they recommend immediate removal of the payons because the tumor is usually necrotic and the risk of thrombosis becomes greater with delay. As the infection causing infectious phichitis is so frequently of intestinal or univery origin, Cotte and Mathieu believe that immediate operation for removal of the myoms would not have a beneficial effect upon it and that therefore, in cases of infectious phiebitis as well as those of phiebitis due to compression, operation should be delayed until the phichitis has subsided A delay of forty days has been suggested, but in some cases it may be necessary to operate much sarlier and in others to delay longer. Operation is indicated as soon as the phickits has subsided and embolism is no longer to be feared. The tempera ture, blood picture, and sedimentation rate should be micd as goldes

In emergency cases, such as those of gangranous myones, it might be advisable to higher the hypogastric velus before removing the tumor

ERTE SCHANCES MOORE

Wetterdal, P. Dose the Microscopical Diagnosts
Afford Prepasatical Guidence in Carrical
Cancer? Acts skd of place Stand. 934, 24, 303.

At Radiumherment, Stockholm, the relation to these the heatstoped postures of a concer and the results of radium treatment as judged from observation over period of few years was studied in 34 cases of solid cancer of the cervit. The cancers were chassified histologically into 3 groups () mature Leratineous cancers, (s) more typical cancers without Leratineous formation, and (s) immature anaplaritic cancers. Chindully the cases were divided into four groups according to the chasification proposed by the Cancer Commission of the League of Nations.

The incidence of beating was so nearly the same in the 2 histological groups as to indicate that the microscopic appearance of the cancer is of no importance in the proposis of irradiation treatment. Runniker made the same observation with regard to treatment by surgery alone and treatment by surgery combined with traduction.

The author concludes that the histological picture in curvical cancer is of no sid in the prognosis and does not indicate whether operation or irradiation is to be preferred in a given cass.

Frommolt, G., and Wantager E. The Progness of Carcinoma of the Partio in the Young Gar Propose des Portocarcasas bel Jugediches). Zuvirill, I (press) 234, p. 26.

Because of the unfavorable results detabled it recent years in the treatment of carricones of the Portio fa women under thirty years of age, the arthors reviewed the cardionous material of the Berlin Dairverify Oynecological Clinic from yet to date. He found that the incidence of cardiones of the Portio of rough years waterial considerably in this portion of courty of the control of the portion of the portio

Into 3 recuje

Of 36 patients who were treated in the period from
9 to 1918, 167 per cent remained cared for it
least five years Of 15 patients in this proop who
were subjected to the Worthelm operation, 33 year
to the period from 1913 to 10 p which were reviewed
the period from 1913 to 10 p which were reviewed
by Fillipp and Goralck, the Indicases of Immediate
true from operation was 49 per cent, and the indidence of absolute cure, 90 per cent.

Of the cases of the authors' series which were treated in the period from 19 pt 19 y, perseases cure was obtained in 33 y per cent. After senjery the incidence of permanent cure was 41.8 per cent, whereas after invadiation it was only 16.7 per cent.

In the cases treated since one, period m which radical operation by way of the wagin was substituted for the Verthelm operation, surgery was followed by twice as many permanent cares as inradiation.

The authors conclude that in cases of cardinosis of the portion in women under thirty years of age the prognosis in definitely more undavorable than in superior to treatment by irritosities. No increase in the increase of carantoma of the portie is young women could be established.

(FROMORE) MATRICE J. SEITHER M.D.

Calloway C. E. Schiller's Test for Early Squitmess-Call Carcinome of the Carrix. Am J Sarg. 634, 86 sSt.

Present-day treatment of cascer of the cervit is toost efficacious when the growth is to the certy stages. Conceptulty any method of large certification which paralle an early diagnosts is worthy of trial. Schiller's ledies test is advocated as as office procedure to demonstrate glycogen free areas on the cervix It consists in gentle painting of the cervix with Gram's solution (iodine i gm., potassium iodide 2 gm., and water 300 c cm.) It is simple and painless, it requires no expensive apparatus, and it consumes little time. Tissue for study should be taken, if possible, from the margin of an iodine-free area.

Only about 20 per cent of the iodine-free areas will prove to be cancerous, but the continued use of the Schiller test will stimulate more careful inspection of the uterine cervix and should materially increase the examiner's diagnostic acumen in recognizing very early asymptomatic carcinomata

GEORGE H. GARDNER, M D

Puccioni, L. Leucoplakia and Cancer of the Cervix (Leucoplachia e cancro della portio) Rivital di ginec, 1934, 16 25

Puccioni discusses the relationship of leucoplakia to cancer and reports three cases of cervical leucoplakia in which the cervix was amputated and the lesions were studied histologically. He states that in the diagnosis of lesions of the cervix he uses the colposcope and often notes areas of leucoplakia which might be easily overlooked in examination He accepts Hinselmann's with the speculum classification of leucoplakia of the cervix. He describes three types (1) plaques which are whitish, more or less superficial, usually quadrangular or triangular, rarely circular, and often multiple, (2) plaques with a base which appears grayish-red be cause of the intermingling of numerous white and red punctate areas, and (3) plaques composed of grayish-white quadrangular forms separated from one another by a red ring

Histologically, he differentiates four types Type I is characterized by cornification of the superficial layer of the epithelium and the appearance of atypical epithelial elements, especially in the deeper layers Type 2 shows, in addition to the epithelial changes seen in Type I, a distinct tendency toward deepening of the epithelial papillæ into the subjacent connective tissue and around the glands Type 3 is characterized by many atypical cells. In Type 4, the cells are frankly neoplastic

Following a review of the literature on the relation between leucoplakia and cancer, the author concludes that not infrequently plaques of leucoplakia may develop into carcinoma and that therefore early diagnosis and removal of areas of leucoplakia are important in the diagnosis and prevention of carcinoma of the cervix

In discussing the etiology of leucoplakia of the cervix, he attaches great importance to chronic inflammatory processes or irritative lesions of the genital tract. He calls attention to the fact that most women with leucoplakia have had leucorrhea for a long time and show lacerations, ectropions, or erosions of the cervix. The areas of leucoplakia seen through the colposcope are usually found along the margins of an ectropion or erosion

The cervical area involved by leucoplakia should be excised and the plaque of tissue examined microscopically The tissue changes seen microscopically determine whether the treatment should be amputation of the cervix or total hysterectomy. Only very early lesions may be treated conservatively with examination at frequent intervals

PETER A ROSI, M D

Taussig, F J Hiac Lymphadenectomy with Irradiation in the Treatment of Cancer of the Cervix. Am J Obst & Gynec, 1934, 28 650

Iliac lymphadenectomy has been performed by the author in twenty-six cases of cancers of Groups 2 and 3

Under spinal anæsthesia a midline incision was made. After simple ligation and removal of the right adnexa, the posterior sheath of the broad ligament on that side was caught with a clamp and the ligament opened up with exposure of the ureter coursing over the pelvic brim and attached to the posterior sheath It was then possible to see the bifurcation of the common that vessels into the external and internal iliac branches and, in the angle between these vessels, the must lymph gland, the most common site of metastasis of cancer of the cervix. With a little experience in lymph-gland palpation and dissection it became a relatively simple matter to free this gland and lift it up so that the small nutrient vein could be caught and ligated. The obturator gland was then removed. If the parametrum was not thickened too much, it was possible to follow the ureter down to where it crossed the uterine artery Here the ureteral glands (Championnier) were located and removed. The removal of these glands was more difficult as it was necessary to avoid injury to the ureter Removal of these glands often required ligation of the uterine vessels. Occasionally the glands were surrounded by exudate to such an extent as to make their removal inadvisable. This was true in two out of seven of the cases. In such instances radium emanation seeds were implanted into the lymph gland.

The relative infrequence of involvement of the sacral glands, the variation in the location of these glands back of the rectum, and the necessity for extensive deep dissection to effect their removal led the author to refrain from including them in the operative procedures Hence, instead of removing them, he implanted two gold radon seeds of 11/2mc. each with a trocar along the course of the sacrouterine ligaments and a third radon seed of equal strength in the loose connective tissue of the iliac bifurcation. In order to prevent the formation of a hæmatoma in the broad ligament, the connective tissue space that had been opened up was compressed by suturing the round and sacro-uterine ligaments to each other at a distance of 4 or 5 cm from their uterine insertion. The remaining wound was closed by a running peritoneal stitch The same procedure was then carried out on the other side. The abdomen was closed without drainage. The operation was usually followed by an intracervical application of

radium

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Tudhope, G. R., and Chibolm, A. E. On the So-Called Servouse of the Endometrium. J Obs.

During the past few years the group of neoplasms classified a momenta has been reduced by the cr channel of new provide the cross of which colors are the control of which colors are the neuroblesspaced. Examples of the superior of the previous plants are the neuroblesspaced of the superior plants are the neuroblesspaced of the superior plants are the provided to the colors of t

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Many reported cases of carcinoacrossa of the utterns were revised. The authors believe that some of the temors in these cases were celular

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Mocquot, P., and De Langra, M. Sarmman of the Body of the Utarra (Sarcous de cops de Faterra) Cymicalegie 214 11 414.

Although acrosses of the uterus as rare, coests taking only about per cent of uterus tumon, the authors have seen three cases in a period can be a two years. They report these cases in detail

The first case was that of "weens feetly-three") and of any who natured the hospital for frestment of abdominal polis which was most first the size of all dominal polis which was most to be size of the size of an attention and sections. On point cases the size of an attention was former to be size of one of the size of the siz

The second case was that of woman forty are years old, the mother of six children. The yeongest child was revented years of a patient of the policy of the patient of memorrhaps, method and patient of the patient of t

was round and regular in form and morable cause of the ripid development of the tumor, malignancy was suspected. Total hysterectom) and and appendent were performed Histological examination to be a leiomy of the tumor to be a leiomy of the transition amination. The patient is now in excellent health

The third case was that of a very obese woman erth ex years old who had presed the menopruse sixteen tear previously and had had a serosanguin ous discharge for several months tion disclosed 7 resistant abdominal tumor with some degree of fluctuation which was situated mainly to the left of the midline polycystic tumor of the overs was made and subtotal hysterectoms was done. The tumor was found to be exceeded. mainly to the left of the midline to be sarcomatous and of uterine origin In unusual feature was its evenic consistency. During the open tion it was punctured with a trocar and more than I liter of bloods fluid was aspirated. The Patient died two months after the operation from a pleuro-

In discussing these cases the authors compare them with twenty three cases collected from the pulmonary metastasis them with twenty three cises concered from the hierature. They state that the Poesibility of uterine accoma should be considered in all cases of metrorrhaga or abdominal pain associated with a rapid mercase in the size of the abdomen due to a tumor with the characteristics of 7 hbrom? In such cases hysterectom is the safest procedure. For moper able cases of uterine sarcoma the authors recommend radiotherspy They call attention to the fact that in two of their three cases the condition was ac companied by fever and phlebitis which are not common complications of uterine fibroids

# ADNEXAL AND PERIUTERINE CONDITIONS

The Nature of Ovary-Stimulating Hormones Am J Obst & Grace 1934 28 Fluhmann, C F

A comparison of the biological characteristics of a number of gonad stimulating hormones was made by (1) an analysis of the histological changes induced in the ovaries of immature rats, (2) a compan son of the effect on the weight of the ovanes of a known total dose of an extract given over periods of five and ten days, and (3) a study of the histological changes in the overness of hypophysectomized rats

It was found that the extracts could be divided into the two following main groups (1) an "antenor pitutary group, which included preparations made from human hypophyseal material and the urine of women in the postchimacteric period and (2) ? "chorionic hormone group, which included extracts prepared from the blood or urine of normal pregnant women, the urine of a voman with a chorionepithe lioma of the uterus, and the urine of a man with a

The possible rôle of the "chorionic ovary stimulating hormone" in the physiology of human gesteratoma of the testicle tation is discussed

Jessconte, T N A, and Potter, A L Endometriosis as a Manifestation of Orarian Dysfunction

J Obs! & Gynac Bril Emp , 1934 41 684 Without considering the origin of the initial endometral elements in endometriomatous lesions the authors express the opinion that the subsequent development of such lesions depends upon over activity of the portion of the ovary secreting the follicular hormone In the majority of the III cases of endometriosis which they studied the presence of such overactivity was demonstrated by examination of either the ovary or the endometrium of the uterus In only 7 few instances was there 2 demonstrable corpus luteum or any evidence in the endometrum of the action of the corpus luteum whitever the of the menstrual evels. The incidence of eterlity was extremely high From their studies the authors conclude also that the overgrowth of fibromuscular tissue frequently associated with endometrosis may be due to overactivity of the orars in the production of the follicular hormone

## MISCELLANEOUS

Guides with Regard to the Clinical ura, Guides with Repaire to the Chinical Aspects of Gonorrhoa in the Temale (Linige Richtlinien zur Klinik der weiblichen Gonorrhoe) Bucura, C

Bucura first discusses the various methods used for the diagnosis of gonorrhoa, especially the micro scopic examination of slides stained with Gram's He then discusses the significance of the complement fixation reaction in gonorrhoea states that the serum reaction is definitely positive only after the gonococci have reached the deeper tissue layers In every case it is at first negative. As a rule the body requires from two to three weeks to become seropositive even when the infection involves

The result of the serum reaction is of special importance in the determination of the treatment. In the deep structures the acute stage the chief object of treatment should be to strengthen the body's resistance to the organisms Of chief importance, therefore, are rest and a proper position of the body to favor drainage of the

Actual treatment is not begun until the chronic stage is reached, that is, the transition from the acute to the chronic stage The author discusses the secretion acute to the entoine stage. The tuthor discusses the nature and importance of local treatment with particular reference to the excellent results obtained by vaccine therapy He states that the injection of vaccine should be given in the immediate site of the infection Vaccine treatment is contra indicated by extensive active lung conditions, severe cardiac in-Juries, and other severe affections of internal organs Detailed instructions regarding the dosage of vaccine are given

Bucura next discusses the indications for surgical intervention, but emphasizes that as a rule gonorrhæa can be cured by conservative methods

states that the earlier the treatment is begun the store complete the cure, and the later it is begun the greater the probability of residual functional diturbances (L. Walcarra), Mannas J. Sergers M. D.

Packalén, T. 1 Studies on the Concruction; Its Specificity and Its Behavior in Prostitutes. Add Sec. and Famicus Dueliciss, 934, 7 Fac. No. 1.

The a ther precedes a discussion of the results in his obtained with the Entitations retaining not approximately a generaction (pronounced complement furtice reation) by a lempthy and detailed review of the Hernture on this reaction. He states that the reports the the intentum concerning the reliability of this teet are at great resistance, the reported accuracy in histeriologically proved causes of poserbried unchilds reliability times y 4 apper cure (Mercusseum and Zerdo); to 19 and 2 in prevent (Previous and Merchalles).

Packalen carried out 3,373 serious tests on 3 large groups of persons (1) 0, 3 non-presentates, and (2) 673 prostrutes. These included patients with bac terologically proved grocerkose, particus with arthritis and adventity not bacteriologically proved to

be gonorrhoul, and 610 persons used as controls. The chief results of the tests are summarized as

follows

Of 34 persons with proved gonorrhose, 84 apper cent showed a definitely positive reaction, 7 per cent a weakly positive reaction, and 84 per cent a negative reaction.

The mendance of positive reactions was highest

in cases of rthritis and inflammation of the female adores. In the former it was 98 s per cent and in the

latter o 7 per cent

3. Of 44 case of generations limited to the monose semblanes, the stretches was positive in 69 g per cent 4. Of 40 apparently healthy persons analysised to the test, 1. 7 per cent) showed positive resolved Of 133 patients with various diagnoses acrops generation. 8 per cent metales positively as did 7-4 per cent of 497 patients with pulmonary tuberculosis without chirals avidence of geoorches.

3. In the cases of §5 presilintes who had or had had becterologically proved grounders, the inddence of positive reaction ranged from 65 5 to 87 6 per cent in the case of §56 presilints with acute very recently acute proserties. It ranged from 8 5 to 87,6 per cent and in the case of 339 providence without becterological evolence of grounders it.

ranged 6.5 to 84.5 per cent.

6. Of 19 womes who had been prostitutes for from its months to two years, almost on per cent aboved a positive poscenection although sected-logical proof of geneconcul meletion was found in only 400 per cent. In the cases of 15 weeks with the period process of the cases of 15 weeks with the period with

incidence of positive reactions was 75 per cent.

The author concludes from these findings that while the presence of acute generates as no be proved in a high percentage of cases both bacteriologically.

and strologically chinosic geoscience infection is detected about 2 times new order by sensioned in a by bacteriological study. He believes the till in the cases of presistants the geoscience with the sension of continuous control in addition to repair research logical standardies il twoold made possible sensioned referritive supervision and control of these infection and notestially inducted versus.

HARRIS C. MACK, M.D.

## Mitteri, E. A Study of Appendicits in Oynecology J. J. Obst. br Gymc. 934, 7, sqt.

The author believes that there is a rices resisted between appendicties and infeatment for of the Lernal female gentlatis and that therefore, whenever appendictus occurs in a soma of memageside age, the appendix abould be removed however appet the attack. H is of the opinion also that is general layarotocoles on women the internal position and the appendix about he resembled carefully and the appendix about he resembled carefully and the special palent he resembled carefully and the proposition about the resembled carefully and the appendix above as one of the appendix above.

Centagne, O. Experimental Inventigations Retarding the Relationship Between the Throns-Gaset and the Gentral Organs of Immuters Fernile Rabbits Transled with Preparate resease (Racrabs speciments) interesting or relationship in time of apparate pentile research di cecipte impuler irrative on armosi gravalo. En sei de poet, 1994, 16 day

In the literature reviewed by the utbor there is considerable controversy regarding the relationship between the thymns gland and the grants' organs.

Friedirbon, Hammur Canzidi, Rancoul, and serve differ representing the enact weight of the stymus at warness times of his but agree that the region of the promise first promised first and second years, horseaser again between the forcent and econd years, horseaser again between the forcent and econd years, horseaser again between the forcent of the consider years, regreener production of the production of

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## GYNECOLOGY

The author studied the action of the pregnancy hormones on the thymus of immiture animils. He normones on the thymns of manufacte anim is selected rabbits from sixty to eighty days old which weighed from 650 to 750 gm. The divided them into weighed from 050 to 750 gm
The first group were

5 groups of 3 rabbits each
The first group were S groups of granders each the most group were green injections of urine from nomen in the fourth given injections of arms from nomine in the round group, injections of the form nomine of tions of unne from women at term, the third group, the thord group, wheeled? uons or urine from women at term, which was free "boiled" urine of women at term, which was free from pituitary hormones as these hormones are destroyed at 60 degrees  $\Gamma$ , and the fourth group, and the from normal male adults. In the cases of the rabbits in the fifth group small picces of placental raunts in the men group sman pieces of pricental tissue were introduced retroperitoneally and injec tions of a water extract of placenta were given In the first four groups 4 c.cm of the urine were injected twice a day for fifteen days, and in the fifth group 3 c.cm of the placental extract were injected twice a day for the same length of time. No untoward symptoms were noted in any of the animals

symptoms were noted in any of the animals rabbits.

At the end of the fifteen days all of the rabbits were killed and examined as follows amination are summarized as follows the treated math adult male want changes in treated math adult male want changes in treated with adult male urine shored no changes in

their genital organs

2 Rabbits treated with the urine of women at term and those treated with placental tissue plus placental extract showed a tumultuous development piacental extract snowed a tumultuous development of some of the follicles, a tendency toward atresia and cystic degeneration in others, and regressive changes in the lining epithelium of the uterine changes in

Rabbits treated with the urine of early preg cornun

nancy and those treated with "boiled" urine showed hypertrophic mucosa with an increase in the length in percuopine mucosa wich an increase in the rengen and number of glands in the uterine horns as com

The thymus glands in the groups receiving pregnancy unine and the group treated with placenta pared with the controls tissue and extrict shoved grossly a decrease in size with sparse viscularization and, microscopically, with sparse viscularization and, microscopicany, smiller and more irregular tubules, increased consurctive tiesue, and more pale straining cells as com-

The author comes to the conclusion that the urne of pregnant women 15 well as placental ussue pared with the controls unite of pregnant women is wert as pracent assurand placental extract contains a substance which is and precental extract contains a substance which is capable of provoking regressive changes in the

thymus gland of immature animals

## OBSTETRICS

## PREGNANCY AND ITS COMPLICATIONS

Schwarz, C. Habitual Abortion (Ucher das kaidte. often Abort) Landrall / Great (Urors one as 234, p. ) The cases in which borrion occurs apontaneously The case in which bornon occurs sponsoreous from a known cause and cause treatment can from a known cause and cause treatment can therefore be given are relatively few. They should therefore he given are relatively few. They should not be considered as sabitous abortions in the strict not on commonred as saminas aportuous in one sense, of the form. Is a large number of cases of sense of the term is a large number to cases to habited abortion there is as bootted sensitiveness material abortion corre is an anomals resolutives of the nterns and abortion results because the to tes areins and sources tesuits occame too proper nation of pecuasis of other industries. In old hatmibasse early contractions may occi to the used of contractions are one of the productions of the contractions of the contr

primipare early contractions may occur in the right siters and give rise to labor palm leading to exped-tion of the fetts on or one recuss.

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extinent in no case has the author oven some of demonstrace that avitantions was the course to be importance of the endocrine flands in the occurrence of habitual bortion is giands in the occurrence or maintain outside and discussed belong Toe effects of even unrested and discussed organic preparations, especially those of naparness organic propagations, especially those or author keres open the decation bether only a author search open the question better only a specific effect or in addition, conspected protein Specific effect or in addition, don-specific protein center is involved (the serior of perganary). That its property is a person of permanent of the serior of permanent is a constant of permanent of the person of toes to a cases or parimeters during a west known, during the theory that Tribina cas cause only permature the tocory that I points our cause only permature birth should be rejected as agreement this condition nerth arrows on rejection as accommon into common in transportable for abortion. Even her all upon (the

is regardable for abortion them one att area (the history and is clinical and services i medium polar galaxi fore, warechette are often distinct, trails of the parachette are often demonstrative fractions of the foregree of the course Specialist treatment is dynamic in section and the pphicable also t cases or napitual anorther like pitches and occasionally bitized good results from il substitute that injections of persentation

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## LABOR AND ITS COMPLICATIONS

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The author includes in his discussion of brown Accuration porporate to asper departs occurred stocaterous outs crees in which mentally occurred sponializations and those water intervencion as accessive fills statistics are based on fifty store

cases observed between the years 10 t and 1013 at the Rightospital, Copenhagen Maly seren intents, t out two died. Among the latter were five abnormal fetures

he latter were new absormal sections.
Like the infant mortality the material mortality has also higher than in normal deliveries mortality one case of afcatue tabians ne case or memne repents.
The average weights of the infants are presented

in a table and compared with those reported from other choice.

The Annaber of appointments defired and of defired repulses before and molecular are the case of histories are reported in decimal compared.

In the case of th

Hermann, T | Sociations Transformation of yagonani, T.; apontaneous transformation as a Face Freezintation into an Occipat Freezint tion During the Pariod of Expulsion (Spontar non resing the Period of Lipoteco (Specimento) of Autoritation (Autoritation of Autoritation of Autoritation)

The suther reports a case in which, an bour after A on numer repeats a case in water, an oost and face presentation had been determined coachairely in the second stage of labor the civil as bors to in the second stage of about the child as bore to compet presentation. The capter investments we as the first party investments were also within of the occipie in the statest both set to do the control of the statest both set the better moved by hydramator and provides as

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pent to the state enters mayor navy prought asset to change, the other believes that this mechanism is possible only best the annatoric me he still intenpossible only here the anniotic size is said to the helpfuning of the period of expelsion if it is of the optable that when, as in the case reported. no or the openion that when, as in the case tipotics, labour has been in progress for as long as the real born. and the annione are has been repeated for tro the summers are was been ropestry for two marin, the secretar or the restrictions of the second of the bedominal meades exceeds the activation of the fleror numbers of the next to such as entered that the face personation will remain to show an ea-If it of the option that the position of the min of the best in rest tion to the best in the writes of the

beed and neck, plays determining role in the development of face presentation and that by changing the position of this axis by changing the position of the woman the face presentation can be changed to an occiput presentation. If the woman is laid on her right side when the face of the child is directed toward the left, the chin will sink more deeply and tend to turn forward. If the woman is allowed to sit up or stand, the uterus will fall over toward the left. Thus, in a case of mentoposterior face presentation the chin is raised and repeated change from the right lateral recumbent position to the erect position may change the neutral frontal presentation to an occiput presentation. In the case reported these mechanical requirements were met during labor.

(H Fuchs) John W Brennan, M D

#### PUERPERIUM AND ITS COMPLICATIONS

Kuestner, H Increasing the Secretion of Milk with Anti-Thyroid Protective Substances (Stergerung der Milchsekretton durch antithyreoiden Schutzstoff) Muenchen med Wichnschr, 1934, 2 1261

In the production of milk the following factors play a rôle (1) the previous size of the mammary glands, (2) the development of the mammary glands during pregnancy, and (3) the functional efficiency of the fully developed glands during lactation. Artificial influencing of the two first factors to increase the quantity of milk in women after delivery appears hardly possible. On the other hand, it seems feasible to attempt to improve the functional efficiency of the glands. Of the physical methods for this purpose, the best are massage of the breast fursing, and thorough emptying of the breast after nursing. Complete emptying is accomplished better by milking than by the use of a breast pump

Of the chemicopharmacological agents, the sex hormones have been found to cause a marked development of the mammary glands in animals. How ever, their use should not be applied to human beings without further investigation. It has been noted, conversely, that the administration of thyroxin considerably decreases the secretion of milk. This observation suggested that by suppressing the function of the thyroid by the administration of anti thyroid protective substances the formation of milk might be increased in women with an insufficient secretion This assumption was proved correct by a series of observations. In women who were given such a protective substance (thyronorman or di-jodo thyrosin) the quantity of milk increased and the time between the beginning of the secretion and the maximum secretion was considerably shortened

For women who, after previous pregnancies, were able to nurse their infants for only a short time or not at all or whose supply of milk was insufficient, the author recommends the prophylactic admin istration of the protective substances. Occasional failures of this treatment he ascribes to inherited defects or too small mammary glands.

(K J Anselmino) Mathias J Seifert, M D

Ducuing, J, and Guilhem, P Obstetrical Phlebitis of the Subacute Venous Septicæmia Type (Les phlébites obstétricales à forme de septicémie veneuse subaigue) Gynée et obst., 1934, 30 222

Subacute venous septicæmia as a sequel to childbirth resembles somewhat the medical subacute venous septicæmia described by Vaquez and the postoperative subacute venous septicæmia de scribed by Ducuing The phlebitis is usually superficial and segmentary and develops in successive stages

The authors report a very severe typical case in detail and discuss the clinical symptoms, diagnosis,

and treatment of the condition

A series of foci appear successively in the superficial veins, the appearance of each being ushered in by neurosympathetic symptoms such as a rise in the local temperature, pain, exaggeration of the shivering reflex, and peripheral symptoms such as slight cedema. If the pelvic veins are involved,

visceral symptoms ensue

In the lower extremities the ædema is often located about the malleoli. In the leg it is less marked, but is demonstrable when the calf is shaken This cedema either disappears or extends to involve the entire limb The extension does not proceed unbrokenly, the ædematous foci are separated by normal areas In the abdomen, palpation and careful inspection are usually necessary to demonstrate infiltration The veins of the upper limb may also be involved with resulting adema of the elbow region and dorsal surface of the hand Coincident with the ædema there is pain along the inner surface of the arm with a sensation of heaviness and functional impotence. Involvement of the veins of the pelvis is rare. It occurs at an early stage and is manifested by abdominal distention symptoms may indicate prevental pelvic involve-Hæmorrhoidal congestions and tenesmus ment may indicate perirectal involvement.

Among the septicæmic symptoms are fever and chills of short duration. The infection is subacute and the general symptoms are very slight. A new phlebitic focus may appear without changes in the

pulse or temperature

The authors have noted four types of the condi-(1) a type with small successive foci, (2) a type with phlegmasia, (3) a type with quadriplegia, and (4) a severe type like that occurring in the case reported In the type with small successive foci, which occurs chiefly in varicose subjects, the phlebitis involves principally the superficial veins of the lower extremities, the general symptoms are extremely mild, and the appearance of each new focus is manifested merely by slight pain localized to a venous tract, varicosity with slight redness and local heat, or, in a few cases, slight vasomotor disturbances and a slight rise in the temperature. In the type with phlegmasia there is involvement of the deeper vessels of the leg with resulting marked cedema of the whole limb, a ventable phlegmasia alba dolens In the type with quadriplegia all four

limbs are involved and in the great majority of cases also the spirity vista. It the servest type the agraptones are more mented and include chills lasting serveral bours and profuse sweats. Between the sit tacks the patient feels well so that an incorperisoned observer might believe the condition curvel. Soon, however a new forms appears with renewed symmetric production, recovery may soot take place for major secondary, and death may emisse from enabolism or spytherasis.

In agite of the possibility of unholism, recovery results in most coses of selective veness septile philebitis. Embolism may be mailested fast by a slight pain or bloody squorest. The earther oftecase as which to converted on the seven methods as yearer diagnosis not having been made and trustment therefore having been mackequate. They believe that is this care early diagnosis with immediate

immobilisation might favre is at the patient's life. The disposite of subsective remote septemble in fairly easy. It is inflorent to keep he mide the possibility of such condition in association with vasomotor desturbances, abdominal distention (see and depressible) slight locathed redema, increasing and depressible) slight locathed ordema, increasing an amount of the subsection of the s

The prognosis of plabulis of the substrute versions applicable type is favorable, but errors an diagnosis may lead to changeness treatment. Since immediates with due consideration of the periods of lattice is inducted as a new attack new occur on the first attempt to mobilise the patient. Mobilisation should be majtried only water careful observation.

of the temperature and pulse. Treatment for the septicerula, including a attenuating diet, abundant fluids, and serotherapy with Viscosat's serum or learnunovensimion, is also indicated.

ENTER SCHLAGER MOORE

Carnett C. FORKA, M.D.

#### MISCRILLATROUS

Pozzi, R.) Evaluation of Chelcal Statistics on the Relation Between Parity and Pathological Gletotrics (Palest estando-closic of report in patts a patelogia estetrica). Res stel. Il past 1984, 25 IoS.

T determine the relationship of parity to the more frequent complications of pregnancy the author examined the records of 3,343 women deliward in the fire-year period from 1927 to 1931.

He found that breech presentation occurred alightly more frequently shoulder presentation & times, and multiple pregnancy times more fre-quently in multiparte than in primiparts. Pythos and eclampels occurred a three more frequently in primiparso than in multiparse, while the incidence of albuminerts was about equal is the 2 groups Piacenta previa and premature separation of the normally implanted placents were 8 tunes now frequent and postpartom hemorrhage was 35 times more frequent is scalling the than in principace. The lacidence of poerperal infection was about equal in the a groups. Operative delivery was necessary the times more often in the cases of primipers than in those of multiparte. Complete and incomplets bortions were 5 tisses more frequent in stulingars than primipare. Vesicular makes occurred with about equal frequency in the a groups. The mater nal mortality was abglitty higher in the cases of analtiparse than in those of principarse.

## GENITO-URINARY SURGERY

## ADRENAL, KIDNEY, AND URETER

Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency (Comportamento dell'acidolattemia nell'insufficienza surrenale) Arch ital di chir, 1934, 37 387

Following a review of the literature on the function of the suprarenal cortex with special reference to carbohydrate metabolism, Rabbom reports the findings of his studies of the lactic acid content of the blood in suprarenal insufficiency. In a series of experiments on dogs he first performed a hemisuprarenalectomy and then, after a period of about a month, he removed the other suprarenal from some of the animals. He studied the blood before, and at intervals of one to ten days after, the operation. The amount of lactic acid was determined by the iodometric method of Jervell. The statistics reported are based on the ten dogs that survived.

The results of the experiments, in general, indicated that the suprarenal cortex has an important influence on the lactic acid exchange. Beginning with the early days after the hemi adrenalectomy there was an increase in the lactic acid of the blood. The amount reached the maximum after from ten to fifteen days and then gradually returned to normal. The removal of the other suprarenal gland caused.

another increase

The author states that the changes in the lactic acid content of the blood probably were due to a cortical insufficiency. They were not the result of a total medullary insufficiency as it is known that tissue similar to the suprarenal medulla is to be found also in other parts of the body. Adrenalin may be obtained from the carotid ganglion, the Zuckerkandl ganglion, and the sympathetic ganglia. The suprarenal cortex probably regulates the processes determining the destruction and removal of the lactic acid, which in large amounts is toxic to the organism. This action may be exerted by stimulation of the resynthesis of the lactic acid by the liver or by further combustion to carbon dioxide and water

A Louis Rosi, M D

Beer, E, and Oppenheimer, B S Transplantation of the Adrenal Cortex for Addison's Disease Ann Surg, 1934, 100 689

Beer and Oppenheimer report two cases of Addison's disease in which three transplantations of human adrenal cortex were done. The adrenal tissue was obtained in kidney operations, stripped of the medulla, cut up into pieces the size of a match head, and transplanted into avascular pockets in the recti muscles. In one case the patient died fourteen days after the operation of a progressive bed sore with infection, but microscopic sections removed post mor-

tem showed the adrenal tissue to be viable. In the second case there was such remarkable improvement after the first transplantation that a second transplantation was done. The patient continued to improve and was able to leave the hospital and live a practically normal life. The improvement has now continued for six months, almost entirely without the use of "eschatin" on which the patient was totally dependent previous to the transplantations

The authors cite the literature to show that heterotransplants are useless and that successful results from homotransplants have been reported also by others

IRVENC J. SHAPIRO, M. D.

Simpson, Levy, Dennison, and Korenchevsky Some Effects of Adrenalectomy in Male Rats J Path & Bacteriol, 1934, 39 569

In studies of fifty-eight adrenalectomized male rats the authors found that decreased appetite and adrenal deficiency were responsible for impairment of growth, a decrease in the gain in body weight, and poor fat deposition

Adrenal deficiency alone seemed to be responsible for an increase in the weight of the secondary sex organs and delay in the involution of the thymus. The increase in the weight of the prostate and seminal vesicles was considerable and constant, whereas the increase in the weight of the hypophysis was less marked.

The gain in body weight was much less in the adrenalectomized rats than in the controls

When cortical extract was given the survival of the adrenalectomized rats was prolonged, but the changes in the organs persisted

There was a slight drop in the hæmoglobin and the erythrocyte count Donald K. Hibbs, M D

Redi, R Traumatic Lesions of the Kidney and Their Treatment (Les lésions traumatiques du rein et leur traitement) J d'urol méd et clur, 1934, 38 231

The author states that certain kidney injuries are best treated by immediate operation and others by more conservative methods. He emphasizes that early operation need not necessarily be a nephrectomy. The treatment and prognosis of each lesson depends upon an accurate early diagnosis of the anatomical and pathological disturbances.

Traumatic lesions vary from a slight parenchymatous tear requiring only conservative treatment to complete separation of the kidney from its ureter and pedicle. The differential diagnosis requires not only a knowledge of the general and local signs and unnary findings but also a careful and detailed examination. The author has found functional tests, such as the indigo-carmine-excretion

text, and pickography of great raibe. As he has had bittle experiences with interactions accomply he prefers according congraphy in transmitic belons of the titinger. If uses a 15 to 15 per cent solution of hithmy holder and has no fear of ladection. He states that the contract of the contract of the contract and sargical laterierone has been excited to concernation of other kidney by various types of tecentractive questions is domainle who possible with contractions of the kidney by various types of tecentractive questions is domainle who possible with

On the bests of his fandings in saims; experiments in which he is jured the kidney and studied the process of he slidney, Red divides the progress of the lesion into the following three stages (1) hemorrhage institution, (2) absorption of the clot, and (4) and

instruction, (2) answerption of the clot, and (3) aca formation.

I we cause are reported in detail to illustrate the different types of lexicus, the diagnostic procedures.

and the therapeutic methods

Names A Rossex, M D

Lloy, D. Clinico-Operative Considerations on Cases of Paint's and Harmsturic Nephritis (Consideration chara-operate e se sicus) do nointe ematures. delorosa. Arch sol di arch.

The author reports has observations in the cases of eight patients with pain referred to the indiany or hematinats, or both, whose symptoms were relieved by decaymalization of the kilney. These patients ranged is age from fifteen to fifty years. Five of them serve feasiles. Note of them gave a kilney of previous acut infection. Tranma was possible etiological factor in only one.

In five cases the pain was also associated with hematuria, but in three the hematuria as the chief manifestation

The pain varied in intensity from that of typical result role due to a calculus to a mild, dull, continue rous pai or a seese of eight in the lumbar region it was alway ambitaril in one case, however decimulation of one kidney for the ride of pain and kemateria was followed by the des chopment of sum ke pain on the other side.

Ilemature, although the predominating symptom is three cases, was equally associated with various as three cases, was equally associated with various edgrees of pails. Diserte and frequency were occasionally noted to demonstrable cases for these sycuptoms as found on systamonye estimation. The thor attributes them i refler disturbances rating in the deseared indeep. Fewer was overe ob-

served either during or after the sitischs.
Urine examination showed blood and albumin in
the majority of the cases.

the majority of the cases

None of the patients had noted gra-cl or calculum
the prise

Physical examination of the lavel ed kidney was insually negative except for tendersons over the lower pole

"I ray examination falled to show renal calcula Ascerding pyclography as carried out only when the patient condition warranted otherwise de scending pyclography was done with the use of Unuselectan B In one case the hematuris stopped immediately following the injection of the eroselectan.

During the operation asstomical changes or eb-

During the operation assistantial changes or abserved in the kidney and capacit. The capacit was thickneed and adherent to the kidney in such a way that in a few cases great care was accessary in the decapathlation to world tearing the kidney pareschyros.

The fatty capsule showed scar-tissue infiltration and in places was intimately atherest to the true capsule by fibrons connective tissue. Decapsulation was carried out in all cases and was

Decapement was carried out in all cases and was followed by complete constition of the symptoms. In some case nephrostomy was done on a kidney m. blds calcult could not be ruled out. After reviewing the lastony of decapeulation of

the kkinsy and the literature on the operation, the author concludes that the favous capacit begins is re-form early that after about tentry days it is again of normal thickness and that after 1 o to the state of the literature of the literature of the state of the state when the literature of the literature of the state of the

three months it becomes about twice the normal size. Desipurlation of the kidney destroys the vascolar connections between the capanis and the kidney and there is no evidence that they re form

After the operation there is an increase in the sum her of interbobilis arterioles of the cortex, the issurlobular cars, and the radial veias of the stars of herbeyen with monerous ananomous between them. The distribution of the bildness in become

The distulction of the kidney is improved because there is an increase in the arculating blood per unit of time.

The remain function is in general improved and returns to normal within bout two months.

The author concludes that decayantation does not came any lastes to the hidney and improves the fine tion and autifilion of the organ. He attributes its effect 1 a medification of the circulation under

effect 1 a modification of the circulation rader visionsolve indisense of nervous nature which is prob ably secondary to the severance of the corticorcul nerve fibers Press A. Ross, M.D.

McCarrly G. A.: Renal Neoplemen in Childhood.

J. Park & Bacturel 934, 29 6 3

McCardy reports standy of thirty-one real improve in children—see stratum, I esty necessarily the continuency of the continuenc

McCardy states that in the teratoms elements derived from the three genrs layers were found and segmangeness had progressed to a stage where ratestine and alin with us appendages could be distinguished readily. The great majority of real transors as chaldren are orphirablaneous as "Ten important features peculiar to these tumors are (1) the constancy with which they are found encap sulated and apparently without invasion of the surrounding tissue, and (2) their great tendency to recur after surgical removal. They may metastasize to almost any organ. The metastases resemble the primary growth histologically. Pure carcinoma of the kidney in children is rire. The diagnosis of sarcoma of the kidney in children must be made with care because many so-called "sarcomata" contain primitive tubules and sometimes glomeruli and therefore are nephroblastomata.

## Geschickter, C F, and Widenhorn, H Nephrogenic Tumors Am J Cancer, 1934, 22 620

Geschickter and Widenhorn state that renal tumors may be related to the stages of development in the permanent kidney, that is, may be correlated with the normal phases of nephrogenesis basis of the fact that the permanent kidney has a two-fold origin, they may be divided into two major groups, the medullary and the cortical Nephro genic tumors arising in the cortex constitute the majority of tumors arising in the kidneys, Wilm's tumors, and hypernephromata Tumors of the excretory portion, which include papillomata of the renal pelvis and similar tumors of the ureter, constitute less than 5 per cent of renal neoplasms. The authors believe that all cortical tumors, whether they occur in childhood or in adult age, arise from the same nephrogenic zone

They found that Wilm's tumors occur with equal frequency on the right and left sides and are as common in females as in males. The diagnostic tests employed by the authors are pyelography, the Aschheim Zondek test, and a course of deep X-ray therapy. For nephrectomy, they prefer the abdominal or transperitoneal route. A permanent cure is obtained in only from 5 to 7 per cent of cases, local

recurrence being the rule.

The authors state that hypernephromata arise near the renal capsule in the cortical area of the kidney, and it is now conceded that most of them are carcinomata arising from the epithelium of the renal tubules rather than from adrenal nests

In conclusion the authors state that their study seems to indicate that the variations in structure which make for separate types of tumor are the expression of various rates of growth and the extent of differentiation achieved by the individual form of tumor rather than an indication of an origin from separate and distinct tissues

FRANK M COCHEMS, M D

## Bugbee, H G Ureteral Occlusion Following Radium Implantation into the Cervix J Urol, 1934, 32 439

The author reports eight cases of ureteral occlusion following irradiation of the cervix for carcinoma. All but one of the patients were admitted to the hospital for vaginal bleeding and in the cases of all but one biopsy disclosed a squamous carcinoma of the

cervix All were treated with radium. In all but one the radium was inserted into the cervical canal. In three, radium needles were introduced also into the cervix Five received deep X-ray therapy in addition. In four cases the carcinoma extended into the vaginal wall. In no case were there evidences of metastases or urinary abnormalities at time of the first irradiation. The ureteral obstruction was bilateral in one case and unilateral in seven. In six. the functionless kidney was removed from five months to nine years after the irradiation. In two cases coming to autopsy the occlusion was found to be due to a carcinoma which had extended or metastasized to the ureter. The importance of a urological follow up of patients receiving radium treatment is emphasized. ANDREW MCNALLY, M D

### BLADDER, URETHRA, AND PENIS

#### Riba, L. W., and Christensen, F. A. Urinary Bilharzinsis J. Urol., 1934, 32 529

The authors describe urinary bilharziasis and report a case of the condition. They state that the disease is rare in the United States but endemic in parts of Africa, Asia Minor, and southeastern Europe. The causative organism is the schistosoma hæmatobium.

The typical mucosal lesions of early hyperamia with ædema followed by the appearance of pale yellon granules surrounded by hyperæmia occur usually in the vesical neck and trigone Later changes may produce grayish nodules which may coalesce to form a bilharzial node. The latter may be followed by ulceration or may become calcified and remain chronic. Tubercles may be mistaken for acid fast lesions Papillomata may be formed Submucus lesions may form with resulting fibrosis and calcification leading to the development of hypertrophy and trabeculation due to difficulty in mictuntion Carcinoma in conjunction with bilharziasis has been reported Urinary symptoms develop in from three to six weeks after the touc stage of the disease. The most common unnary sign is hæmaturia. The diagnosis may be made by direct examination of the urine and cystoscopy

Treatment with antimony and potassium tartrate has been replaced by the use of foundin

DOVALD K HIBBS, M D

#### Kretschmer, H L Diverticulum of the Bladder in Infancy and in Childhood Am J Dis Child, 1934, 48 842

Kretschmer reviews nineteen cases of diverticulum of the bladder in infancy and childhood which he collected from the literature and reports six cases of his own. He considers only cases up to the age of twelve years. In the collected cases the ratio of males to females was if i

In discussing the etiology of the condition the author reviews the various arguments advanced to prove that the diverticula are congenital or acquired He calls attention to the presence of urethral or

vesical nock obstruction in the great majority of cases, appending those of admit, but driet there are reported by Hyman in which careful examination taked to reveal obstruction. It attest that whe the examptions are extremely variable this presence of a di criticalism of the histories about the suggested by a superpublic known which disappears on catheterization and is associated with dribbling and difficulty is unlesstore.

Associated changes such as thickening of the blade der all, obstruction at the seck of the bladder by contractant or unrifural valves, and secondary dilatation of the custres and kidneys are common Many cases show also associated congruited sociacities, thicking of the uninary tract. The diagnosis is established by cystoscopy and cystography. Intravenous unremoter has associated it considerably.

The treatment consists in radical removal of the diverticulars, and any obstruction that may be present, gradual decompersion of the bladder and stabilization of resal function. If necessary a preliability cystostomy should be carned out.

Herry of Santron, M.D.

Herry of Santron, M.D.

Franceschi, E. Radical Corettage of the Posterior Urethra (La carettage radical de l'arêtre postériour) J d'urel et che 934, 35 93 197

By radical curettage the a thor means destruction by electrocoagulation of all diseased parts of the posterior arethra which are visible on cystoscopec examination between the membranous aphineter and the venesi neck, includes the venemontanum. If necessary the procedure may be carried out to arveral scances. Electrocongulation was first weed by Franceschi up out for treating cases of posterior uretarities which failed to respond to ordinary methods. Good results in such cases led him to practice systematic destruction of the verumontanum in the most severe cases. This was done to render the orances of the execulatory ducts visible and make sure that an enlarged, inflamed, ordersatwas verumoutanum was not obstructing them and preventing the discharge of secretions or dramage from diseased seminal venicles or prostate. In this article Franceschi reviews 100 cases in which the procedure was carried out reporting it of them in considerable detail In all, there as extensive pathological change in the verumontanum and the ornices of the saculatory ducts ere extrable. On the basis of the critoscopic appearance i varieties of resmontan in are recognized ( ) cristic, (s) in filtrated, (3) scierotic, (4) mired (cystic and infiltrated) and (c) absent.

The ratical carettage described a carried out on ambidistry patients due local anaesthesis in pre-operatin preparation counsis of a prehimistary important sententiation of the actiron urefular that procedure weeknesses impation to does with large may then of semi-position to does with large may then of semi-position or the protection in the process of the semi-position of the protection of the electrode of then inserted and it can sel precent prycel or where mailing gets are also by:

atilied around it. While this solution is retained by an elastic clamp, a distherary current of from the to 400 ms. is passed through the electrode for traminutes. Such treatment given twice diffe for frees five to ten days results in almost perfect steelles tion of the operative field. Prior to the customerexamination the arethra is explored uh a boune à boule and the prostate and scanisel vesicles are examined by relocation, always with a known mantity of find in the bladder. For anywherin the anthor makes up a stock solution of 3 per cent novecals with so per cent chloretone to buch so drops of a 1,10,000 solution of adversion are added for each 100 c cm. Ten cubic continueters of this solu tion diluted so it contains a per cent of nonocase are instilled and retained. Every are misutes to c. cm, more of an increasingly stronger solution are instilled until, at the end of half as hour, to conhave been injected, the last to com with at least a 4 per cent content of novocale. The MacCarthy cystoscope is then introduced. After careful lasper thou the consultation is started. It is been at the vesical neck. All times which appear absorate are treated with the weakest current possible. If bleed ing is not excessive and the patient stands the precreduce well, the erumontanum is consulted last Otherwise it is treated at a second seauce. Following irrigation of the operative field, the scope is removed, the patient is instructed to sold, and a per crad novocein is instilled and left in for ten schutes. The patient is then permitted to go home but is told to seturn after twenty four hours for irregation and the instillation of novocum if that should be necessary

After six or seven days the discharge has resulty subsided. A cytoscopic cramination is then most for observation and, if peressary adultonal cospelation. The representation of the muons in this period is remarkable. If the versional most last herdestroyed, the orifices of the ejeculatory ducts as often of the utricle are widths. When had all the assumes that adequat duclarge of the prestate and vesicles it possible. During the later stage of the treatment culture is not flexible on the

physiological complement to massage In the second part of this report there are eight colored plates showing the condition in some of the cuers reported us the first part. This part of the article consists of a critical analysis of the rationals of the procedure and discussion of the types of cases as which the method should be used and the reactions to be expected. The author re-emphesians the fact that impations, diathermy and prostatic manage will accomplish little if free desirage from the prostate and semmal calcles is presented by obstruction of the energlatory ducts by the discard versusonianum. He discusses in detail the 5 varieties of veramontature and the reaction of each to congulation. The true to sile types are treated most easily as they collapse with a crackhag sound with one application and do not trud to bleed. The infiltrated types include hard and soft types. The former feel like a solid tumor when touched with the probe and are rather difficult to destroy, several seances usually being necessary. The soft infiltrated types are cass to destroy with minimal currents, but types are easy to destroy with minima currents, but bleed abundantly. The sclerotic types are irregular and show numerous whitish scars Coagulation of these types causes severe pain, requires nearly twice the strength of current as congulation of the infil trated variety, and tends to be complicated by postoperative hymorrhage. The mixed type of postoperative numorrhage the mixed type of verumontanum consists partly of cysts and partly of scarred areas The verumontanum has absent in two of the 100 crees reviewed

In conclusion the author discusses the appearance of the posterior wrethra following ridical curettage

## Graves, R. C. The Treatment of Malignant Disease of the Penls J Urd , 1034, 32 501

Carcinoma of the penis is relatively rare, As it is usually radioresistant reliance must not be placed on radium or X ray irradiation for cure Partial amountains and the properties of the pr putation is satisfactory when it is possible. In many cases the ridicil operation may be modified to ad vantage The author describes 7 modification of the classical radical operation which he has found very

A low suprapubic vertical skin incision is made and the lower end extended around the base of the penis The scrotum is not bisected. The amputation of the comments and the comments are the comments and the comments are the comments and the comments are the satisfactor) of the corpus spongosum is done well away from the tumor with a high frequency knife The urethral stump is left long enough for transplantation into the perneum without tension. The urethri is dis sected from the corpora until it can be brought out through a perineal stab wound The corpora are amputated near their attachments with a mildly amputated near their attachments with a minuty coagulating current Closure is effected by suturing the middle of the cut edge of the scrotum to the apex of the suprapubic incision. The gland dissections are carned out through separate incisions made parallel with Poupart's ligaments to within one fingerbreadth of the spine of the pubis where they are curved downward and outnard across the area of the femoral triangle The operation is followed by high-voltage X ray therapy

## GENITAL ORGANS

Kirwin, T J The Treatment of Prostatic Hyper-trophy by a New "Shrinkage" Method J

High frequency currents are used in medical practice for (1) diathermy, (2) coagulation or destruction of tissue in situ and (3) excision and removal by a cutting current The difference in these effects depends upon the amount of heat generated in the tissues, and this in turn is governed by the

Non destructive shrinkage is a heat treatment with the high frequency current in which a given current density applied current density is applied to a measured area of

tissue for a definite length of time. The unit of measurement of the current density is the "millimil" The depth to v hich the heat will penetrate during a

given time period can be predetermined Such thermal shrinkage should not be confused

with electrocongulation or with fulguration as both of the latter are destructive. The shrinkage method withdraws fluid and coagulates albumin so that the treated tissues are reduced in volume and changed in consistence. The temperature within the tissues is raised to a degree which July living adenomatous cells, but does not injure blood and lymph vessels The object is to carry the heat treatment beyond the point of tolerance in the unancesthetized patient (in diatherms), but not to the point of tissue de

This method is new only in the better control of struction, as in coagulation the amount of heat applied By the coagulation of albumin and evaporation of tissue fluids, the gland can be greatly reduced without subjecting even the most debilitated patient to the chance of surgical

shock

An instrument designed for the efficient application of this procedure is described and illustrated, and a number of cases in which it was used are cited

Caulk, J. R., and Harris, W. A Study of the Comparative Effects of Various High-Frequence parative enects of various lingu-trequence Prostatic Resection J Urol, 1934, 32 449

Because of the present popularity of transurethral operations on the prostate, the authors deemed it important to investigate the effect produced by high frequency currents and thermal cauterization The heat produced in gelitin, meat, and living tissue by a cutting high-frequency current and a coagulating current was compared with the heat produced by the thermal cautery by means of a thermocouple at varying distances from the electrode or cautery The effects of such currents on lining tissue were investigated also microscopically to determine the depth of necrosis and tissue death

It was found that the heat produced and the depth of necrosis were greatest when the cutting high frequency current was used, less when the congulating current was used, and least when the

The authors conclude that the removal of prothermal cautery was employed static tissue by excision followed or preceded by coagulation or removal with the cautery is much safer than the use of any apparatus in which a highfrequency cutting current is employed THEOPHIL P GRAVER M D

Zephirido do Amaral The Treatment of Varicocele by a New Surgical Method (Traitement du van cocele par une nouvelle methode chirurgicale)

J d'urol méd et chir, 1934, 38 249

Attention is called to the unsatisfactory results obtained by previous standard operations for varicocele in which venous ligation is done Atrophy of the testicis and subjective symptoms of various types re-irrepent. The sathor is of the opinions that the two major requisits for successful results are (r) an effective, simple orchidopery and (s) distinction or suppression of the venous stasis without muthation of the varient system or disturbance of the mutition of the testicies.

He describes in detail a technique he has pretously described and did minor modification. This technique, which is sample, is shown by Rhatations. It consists seemfally of the Basadio opertion for hereits except that the varience veins are descerted from the cord and brought out in a loop through the aponeurousi of the extremal oblique just modral to the original incision. The cord as transplanted beneath the aponeurousi of the external oblique as in the obligation and the cord in transplanted beneath the aponeurousi of the external oblique as in the obligation of the control of high cord operation. The organization of the internal operation of the regardless of the hydroxic operation.

routins procedure by the author and his colleagues.
It is recommended especially for cases in which there is consistent hernia or hydrocele.

N TRAY A WOLLER, M.D.
Herger G. G., and Thibaudeau, A. A.: Teratoms of
the Testle. Ast. J. Lancer 114.

The authors review fifty-ear cases of malignant disease of the studies in which histological studies were made during the last twenty years. I the State Lustit I for the Study of Malignant Disease, But falo \(^1\). These medicaled seven cases of malignant terrorous at a fault features, I enty cases of embryonation are considered seven cases of embryonation and the studies of the

Of the seven patients with malignant tentions with adult features, all had metastases at the preed their admission to the bospital. Five here ded, one developed metastases after X-ray therapy and one, who was elevess months old: hen admitted to the homeful, remains up in they ware after proteons.

Of the twenty patients with embryonal carcasoms (assulnous) all but one had metastases her admitted to the hospital Sixteen hat ded, two zestell under treatment our cannot be traced, and one

has been well for ten years

Of the seventreen patients, the embry cast carcinoma with lymphod strones, the when he were free from nectualsses ben admitted to the loopstic are above and well from one tight) years there tweet ment, and of the eight who had nectualsses be they entered the hospital, five are living after positanging from one year to ten years since the treat ment.

Of the cleven patients—ith embryonal adeascarchoons, all had metastases or a local recurrence when they entered the hospital and tes are dead

No cases of chorsosepithelions were sern.
The treatment was simple, consisting of orchel

ectsony followed by deep V-ray therapy. At most cases the operation was performed streets, the irradiation therapy was not given until several most he after the surgical treatment.

Of the thirty-six patients who could be traced three years after the treatment, thirteen (56 per cent) were found above

In the prognosis the determination of the excretion of Prolain A in the order is of importance. If the treatment produces and misitaline a low level of excretion of Prolain A, the prognosis is more spx in the favourable. Arones MICKALLY M.D.

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Fragillius Osslum Turda Brit I Surg, Fracer, I

Fragilities oscium tarda is one of the best known and most constant forms of a condition of congenital and most constant forms of 1 condition of consensual britleness of hones known as osteogenesis imperfects. In this form there is a period of from perfects. two to exenteen years when fractures occur readily but are followed by a normal union \( \second \text{pc} mod, beginning at puberty, is characterized by extreme sclerosts of the bone the car are also affected deafness of the osteosclerotic type result ancien dearness of the osteo-circuit type resulting, and an areus sendis is common. If the patient and an area sening is common at the parent survives the first period, he may expect to reach an

Chrracteristic seatures of the discree are 7 deep hlue color of the edery and broadening of the skull The author reports in detail the pedigree of a family average age of twenty members representing four generations Of these, seventeen had deep blue select ten had multiple fractures and five were deal (hemical studies of the blood revealed no abnormalities A hormonal disturbance is suggested as the clio-

logical factor, but its nature is unknown

Santi, E Ostcomvelltis in the First Verrs of Life (L'octeomichite nel primi anni della (113)

This report is based on 366 cases of ostromyelities in children under eleven verts of age who were ad mitted to the Surgical Pedratric Chinic of the Royal
Linversity of Florence in the period from 1900 to The diagnosis was made in the first year of hie in 48 c15e5, in the second in 22 in the third in 17, in the fourth in 43 in the lifth in 30 in the sixth in 25 in the seventh in 50 in the eighth in 51 in the ninth in 20 and in the seventh in 50 in the eighth in 50 in In 12 cases the ninth in 30 and in the tenth in 35

The bacteria found most frequently in this con it was made in the first month of life dition are streptococci diplococci and diplostrepto cocci Less common are staphylococci colon bacilli, Imong the causes of osteomy elitis in infants are infection of the and the bacillus facults alcaligenes child during delivery, infection of the cord, mastitis in the mother, infection of the infant's skin, respira tory infections, and 5) philis In 2 of the cases reviewed the condition developed after vaccination against smallpox Santi believes that in these in

The infection is usually blood borne and involves stances it was due to lack of asepsis epiphyses, the metaphyses, or diaphyses depending largely on the age of the infant. In the 87 reviewed cases of children under four years of age, 100 foci

or oscioniventis were round because of the peculimites of the circulation in these growing portions of the bones The upper epiphysis of the femur was the site of ostcomyclitis in 12 instances, the lower epiphysis of the femur in 4, the upper epiph where company was on the femal in 4, the upper coppliance of the humans in 3, the lower epiphysis of the humans and the formation of the three continues of the continues of the three continues of the humerus in 5, the upper epiphysis of the tibin in 2, the lower epiphysis of the tibit in 3, the upper epiphysis of the ulni in i, the lower epiphysis of epipment of the and the upper epiphens of the libula

Because of its frequency and the many studies of the problem Santi discusses in considerable detail of the problem of the hip with special reference to osteomychits of the hip with special reference to whether the lesion starts 75 an infection of the synovial membrane and spreads into the bone He cites previous work of his showing econumy the cites previous work of his should that in nurshings purulent arthritis may occur without involvement of bone He states that osteo our involvement of pone fire states that once mychits of the hip is most common at the age of my chus of the mp is most common at the soon six months, but may become manifest ver soon after birth formity of the head and neck of the femur and the receivable with resulting dislocation of the femure The dislocation may be confused with congenital the dislocation may be confused with congenital dislocation of the hip While the epiphysis is the most frequent site of ostcomychus in the first years of life, the body of the draphysis is a common site of the bour of the arguings is a common site of breterial emboli because of its abundant blood or precental compon because of its abundant broad supply Involvement of the metaphysic is frequent both in infine, and after the second vear of life

Santi next discusses osteomy elitis in the diaphy, ees of the long bones and presents clinical notes and roentgenograms made in a case of that condition He states that ostcomy chits in infants may start also in the metaphyses there it runs a rapid destructive course, which the author shows by roent-

Santi emphasizes the great value of roentgenog raph) in the diagnosis of ostcomyclitis and reviews some of the roentgen findings. He presents statistics genograms to show the frequency with which the disease is localized in the various bones. In the 87 reviewed cases of infants under four years of age the 100 foci rere distributed as follows draphysis of femur, 24, rere distributed as ionows disphysis of tenut, 24, epiphysis of femur, 16, diaphysis of humerus, 6, epiphysis of humerus, 8, diaphysis of tibus, 7, epiphysis of tibus, 24, and 25 and 2 epiphysis of tibia, 5, diaphysis of ridius, 5, epiphysis of radius, 11, diaphysis of ulna, 3, epiphysis of ulna, 1, diaphysis of fibula, 2, epiphysis of fibula, 1, mandible, 6, maxilla, 5, ribs, 4, ilium, 2, ischium, 1, metnearpus, 1, astragalus, 1, and metatarsus, 1 Santi states that the difference in the distribution in the adult and the child are due to differences in the degree of development of the bones

Attention is called to the high incidence and mortably of osteomysilits of the marilla due to infection from the mouth or new. For this combries Santiadvises early conservative treatment with incidence of the isolon preferably through the mouth.

In infants of compatity cone a valid course with a multitake of purposas. Seat compares the pertons with those occurring in adults. He state that in nursings very acrob forms with fatal specifies are not uncommon and the infection may be at tubuted by the physician to other than the attucage. In newborn and young infants bacteria maynet: through an insignificant wound and produce outcompelits with general infection or a localized outcompelits. While prosting examination of great side its the disgnostic, outcompelits is not necessity and produced to the produce of the produced of the said to the disgnostic, outcompelits is not necessity ruled out by a negative reconstruction.

In nursings the course of the disease is generally faster and more destructive than in older children.

The promote is grave both for his and function.

Of the 87 children under four years of age whose cases are reviewed by the author 36 were carred, 41 died, and 10 could not be traced. In the 48 cases of children under one year of age the mortality was 30 per cent (47 deaths) in the 22 cases of children two years old, it was 45 per cent (17 deaths) and in the 7 cases of children 3 years old it was 3 per cent (4 deaths).

The treatment should be directed first of all to keeping the child in the best boushle general conclution. For this purpose injections of from 5 to to come in meternal blood or 9 times or alternation to come in testing the common conservative than in the case of edulis. Superation should be treated by suction and drainage, the less severe cases the patient should be written the boom may be trephaned Arithrite is treated by arthritomy with or without drainage, depending on the scatters of the process and the severity of the boose lessons. After the operation the lines and kip should be ammobilized to prevent deformity.

EDERE T LEDOY M.D.

Gwynne, F. J., and Robb, D. Calcarsons Deposits in the Suprassituat Tendon and the Subacromial Burse. Australian & New Zelland J. Swg. 934, 4. 53

The case of deposits in the supraspiratus tendor and subscrossal borns is substoom. Thesens producing an educion of blood with the subscross the deposition of line sails as generally considered to be the most important factor. The deposits at benegits by some the capitals of right formation and the producing the subscription of the capital of the deposition of the capital of the capital of the capital of the capital deposition of the deposition of the deposition of the deposition to create cases. The deposit may act as a foreign body producing secondary inflammatory reaction.

The lesion is most common in females and is sometimes bilateral. The patient may complain of acuts or chronic shoulder pain. The pain is often most marked on abduction and external rotation of the arm. In chronic cases it may be amodated with limitation of motion and mescular atrophy Tesderness may be marked over the greater tubersely of the humerus. The diagnosis is teach from road amourams which reveal opaque or calcurson de posits in the angle between the head of the knowns and the accomium. These deposits vary from a few millimeters to a few centimeters in size. They may overlie the humeral head so that they may easily be overlooked. When such deposits are suspected, the central ray should be directed to degrees toward the feet and 10 degrees outward to bring into profile the greater tuberoutly and the site of the attachment of the suprespinates tendon. Rosnigenograms cannot always be depended pon to differentiate equaties In the suprespensive tendon or subscrowial bereafrom opecities in the joint canada.

The treatment is either conservative or singled. Conservative treatment includes rear, deatheray and massage. Of the ten cases reported is the article, nine were treated conservatively with at instance, each results. In two, however convolutions was prolonged and in one a recurrence deviated oned. Casering C. Gerrian C. Gerrian

Lansardi, B. A Contribution to the Discussion of Expertuels Bureaux of the Scapule (Costnotes alle castaton della excetor bureaux della antella, Chie d ergani di menumpia, cui. o 16

The pathology of exostoch bursts is not so wall known at that of cartillaghous exostoses. Luming discusses the citology pathology, and treatment of the disease and reports a case of knowlesses the discusses and reports are case of knowlesses concerned as peaced articulation in the sample, in the Infact, Jonard has been unable to find a report of a similar case.

The patient was an otherwise acreal wears inventy-two years of age who air noming previously surtuned an injury to the back which do not be rolve the acpular region. The shoulder the "prev rapidly Later its growth was arrested, but exceed disturbances in the sern and fountation of more facilities to the sern and fountation of more constagen cannatation revealed round periodisated encreacence with a trabecular structure, the size of a traperfice, on the anterior vertaken in stage of the scapule. The growth had hollowed set the sixth and seventh into over which it glides.

At operation the cartilaginous border of the growth was found covered by a likely layer of florest ususe which was inserted into the rule. This continued borns hard with endotherous and fairly with synovini frond. The borns was afformed on one sade t the erectosis and on the other side to the rule.

According to Lunards theory the constons devised from the application on the vertebral surgiof the scepata. The formation of the burse was due t. the continuous trauma, the inchemia, and the depatement, trophy and lipsefaction of the hyperplastic connective tissue. Its primary origin was a dilated lymph space. The theory that such exostoses originate from the epiphyseal cartilages rather than as lateral proliferations from the joint cartilages is based on (I) their typical site—in flat bones in proximity to the marginal epiphyses, often at a distance from the joint, (2) their limitation to parts of the skeleton having a cartilaginous phase of development, (3) their appearance during the growth period, and (4) the variability and irregular arrangement of the cartilage cells in the exostosis as compared with the articular cartilage

The diagnosis is generally not difficult. It is based chiefly on the presence of a peduncle (which usually rules out sarcoma), the youth of the patient, the arrest of the tumor growth on completion of the patient's growth, and the origin of the tumor at the site of an epiphyseal cartilage The diagnosis of a bursa is exceedingly difficult even with roentgen

examination

Removal of a scapular exostosis is always advisable because of the pressure necrosis of the ribs The article contains a roentgenogram and photographs of the tumor, and is followed by a bibliog-

## Kistler, G H Sequences of Experimental Infarction of the Femur in Rabbits Arch Surg, 1934, raphy

A number of lesions etiologically obscure but with certain characteristics in common have been found in various bones Among these are, Koenig's osteochondrus dissecans of the median condyle of the femur, the osteochondritis deformans juvenilis of Legg, Calvé, and Perthes, Osgood-Schlatter disease of the tibial tubercle, Sudeck's acute atrophy of bone, necrosis of the tarsal navicular bone (Koehler's disease), the bodies of the vertebræ (Kuemmell's disease), the heads of the metatarsal bones (Freiberg's disease, also described by Koehler), and of the carpal lunate bone (Kienbock's disease), and occa sional foci in many other bones, particularly those of the lower extremity After reviewing the literature the author sought to accumulate further data on the pattern of the circulation in bone and the nature of infarcts in this tissue as a possible explanation of osseous necroses His studies were made on rabbits Since simple ligation of vessels alone is unsatis-

factory, bland emboli consisting of a 2 per cent suspension of charcoal in a physiological solution of sodium chloride with a 5 per cent content of acacia were injected into the nutrient artery Infarcts were produced in the femora of young and adult rabbits by this intra-arterial injection and by the interruption of one or more nutrient vessels outside the cortex of the bone. The production of necrosis of bone by the intra arternal injection of particulate charcoal supports the theory that anomic infarction may occur in these tissues despite their great vascularity It demonstrated also that the vascular system of the femur of the rabbit is closed, otherwise such emboli would be only foreign bodies disseminated in the

tissues without the production of nutritional dis-The infarcts formed were intimately associated with the metaphyses of growing bones This finding is in agreement with the general theory that the cartilage epiphyseal line is often the site of osseous lesions considered as necroses. The difficulty encountered in producing infarcts in the adult femur and the tendency of infarcts produced in the adult femur to be near the center of the shaft when the injection was made into the nutrient artery to the shaft emphasize the alteration in the circulation that occurs when the epiphyses and the diaphysis unite When the continuity of bone is interrupted, the severed portions can no longer depend on each other and therefore require other sources of blood supply If the collateral circulation is madequate, nutritional changes follow This is the condition in so-called aseptic necrosis of the head of the femur which occurs in adult as well as growing femora. The infarcts produced in rabbits demonstrated absorptive reactive changes but no sequestration of dead bone The necrosis and reactive changes that occurred in

from twenty hours to one hundred and fifty days after the infarction are described and correlated with the more common clinical entities associated with necrosis of bone

An Anatomicofunctional Study of the Round Ligaments of the Fernur (Note anatomofunzionali sul legamento rotondo del femore) Chir

d organi di movimento, 1934, 19 207 Cella reviews briefly the normal anatomy of the round ligament of the femur (ligamentum teres) and then discusses the peculiarities of its blood supply As is well known, this ligament has, in addition to the usual network derived from the blood supply of neighboring bones, a special arterial supply—the artery of the round ligament derived from the middle circumflex artery of the femur, and, at times also, a branch from the obturator artery, According to Hyrtl, Luschka, and Henle, the arterial distribution is irregular and inconstant. The variation in the relationships of the blood supply occurring with age have been the subject of controversy Cooper, Luschka, and others hold the view that the arteries are obliterated with age, whereas Schmorl has demonstrated patent vessels in the round ligament in the aged, and Nussbaum holds that the vessels may be obliterated in the young and pervious in the old

In histological studies of the round ligament in man and dogs of various ages, Cella found hypertrophy of the tunica interna and media of the artery and obliteration of the smaller vessels with reduction of the capillary supply but not of the larger vessels He never observed complete obliteration of the vessels It is evident, therefore, that the head of the femur may receive blood by these routes throughout life although the supply decreases from childhood to old age. The ligament is similar in structure to other articular ligaments, being made up of loose connective tissue with numerous elastic Shern Cella presents photomirrographs showing the blood supply. With age, the bymanest beroomen indirected by fact and at turner by deposits of bone. At birth, it is sell developed it grows proportionstely with the head of the femor although it order shows great lordfriddar variations: While some inrestinguism have noted its congenital absence Cella found in present is all of one obsiderers. In lanctive subjects it may be small and after probanged disease of the kg it may stropky. If may be the site of an infectious process such as tubervaluels, and say be come area of all by the metalisatest from cancer of the

With regard to the function of the round ligament there are globeries According to the higherent has a purely mechanical function. According to another it is a realmontary structure without function. According to a third, it is carrier of excelted to the braid of the ferms of excels below, in act salso as addition to bring a carrier of weets, in act salso as each on the succession of the fermin by keeping

be acetabulum Erosyx T Lenov M D

Wishrum, W. The Electic Supportive System of the Human Feet (Des classicle Startmystra des menschielen Tusce). And f wiley Circ 244, 34 451

While the arch of the foot has been stimbured to the arrangement of the bory arch of the foot, the archor's studies show clearly that it is due solely? the plantar path of faity tiesse. The fatty tiesses smadar is formed by a pad of fat usaker the held and another under the heads of the metatarists which are connected by a time layer of fatty tissee. Thus

another under the heads of the mentarasis which are connected by a tim layer of first tisses. This studial forms the wills of three arches which give the sole of the foot to characterine shape. The cleastic supporture system of the foot is made up of the plantar epiderum, the subcuttaneous lat of the sole of the foot, the sponstross plantars, the plantar misculturer, and the plantar fisces and

of the sols of the foot, the aposeurous plantans, the plantar musculature, and the plantar fracta and ligaments including the planter sections of the cupsoles of the metatarsophalangesi pents. This supportive system as made a unit by an intricate system of connective tissue strands which take their opens from the plantar aponeurous. Under the heel and the antenor ball of the foot the plantar epidermie is much thicker than over the arch. Beneath the plantar epiderson is the subcutaneous fat which. because of its cellular and structural characteristics. is a ser amentual functional component of the foot The planter fat pade are made up of a system of connective tissue compartments in which the fat cells he. The fat sendal is limited above by the poneurous plenture, the which it is mimetaly connected by the connective turns compartment EVELOW.

In the hight of these facts the problem of the seight bearing of the fore-foot assumes a new sepect. It is true that the heath of the metatamal bones are arranged in the form of an arch, but they are thus maintained, not by learnestics; supports, but by the fatty pad under the fors-foot. This pad is not pronounced under the secund and third metatamis heads, less pronounced under the foorth metatamis head, and absent under the first and fifth metatamit heads.

I conclusion the author describes a new type of inlay arch support

(B. VALETTIN) JOHN B. BERTAN M.D.

#### SURGERY OF THE BONES, JOINTS, MURCLES, TEMPORS, ETC.

Lange, M. Arthrodesis of the Peavers-Indexis Anile Joint-Talocalismonal Jaint-in the Treatment of Servers Balldonard London, Servers Foot, Especially Fart-Foot and Cash-Foot (the Foot, Especially Fart-Foot and Cash-Foot (the Talocalcare-legical-ren Fabracian) or the Teaversidency, and the Servers of the Cash and Almisfessed Cherry and 5 feb for and Almisfessed Cherry and 5 feb for

In the cases of young persons (th flat feet it is frequently unpossible to relever the typical pain below and around the external bone by conserrate treatment. The cause of the fallings as a consequency of the connectation arthrone deformance in the talocaleasest joint to lach even seventees—set dip persons show a condency. Operation should not be delayed until, as a result of incorrect and crosswer eight bearing, all of the joints of the feet shows a

arthress. The author review itsenty-serves coses, as bistered, as most of which operation was performed in the second decards of life. Although the patient were barrily able to saik before the operation, as except two are now capable of full work, even is larming and forestry. The technique used by the author is as follows:

An arch shaped external incuise is make around the outer malienha and Zudaped drivine of the personna longua muscle is done. The tenies of the personna longua muscle is done. The tenies of personal muscle is the direct of personal muscle of personal muscle is described and the interior of a more posterior site. The point in opened and the cartilage removed. The artibles area games unancreasery removal of cartilage.

The internal incuson is made from the tip of the internal mallectus autemocky to the head of the talus More bone is removed on the meer side (tales and calcaneus) then on the outer side, but on the The volume whole the removal as done sparingly position of the or calcus is then corrected. Following the correction a padded plaster of Pana cast at applied for two weeks th the os calcus in the median position and the front of the foot in shight separation At the end of the first two weeks a second plaster cast is polied for tw weeks. The arch is then received out and the enterior part of the lost places in a position of slight pronation. A third planter cast is then applied for four accks, together with an ambulatory spirit. At the end of that time sphat rth an orthopathe shoe is work for from an months

to year Comfication sometimes takes a long true

In very severe cases it is necessary also to make the arch-shaped osteotomy in the neck of the talus, arcu-surped oscolomy in the neck of the latter remove a disk-shaped piece, and apply the latter to the outer side between the os calcis and the

Lange uses the same typical arthrodesis also in all cases of club-foot after the tenth year of life, whether preliminary treatment has been given or astragalus not Many adults upon whom he has operated in this way were advised previously to submit to amputation In such cases the technique is simpler because the peroneal tendons need not be divided and an external incision is sufficient. A small wedgeshaped disk of bone together with the articular snaped disk of bothe together with the articular cartilage must be removed from the os calcis and astragalus up to the inner side The varus position can then be corrected easily the orthrodore to a foot. however, more than the orthrodore to a foot. foot, however, more than this arthrodesis is re root, nowever, more man one artificutes is required. It is necessary also to chisel out a wedge from Chopart's joint from without This operation has been done reportedly for disk for the period of has been done repeatedly for club foot with good results It is indicated for both the congenital and the paralytic types The correction of the os calcis ine pararytic types and is achieved is of decisive importance for posture and is achieved by the arthrodesis far better than by osteotomy on the os calcis (Elsner, Hohmann, and Man) (FRANZ) LOUIS NEUWELT, M D

## FRACTURES AND DISLOCATIONS Multiple Spontaneous Idiopathic Symmetrical Fractures Milkman, L A

The condition which the author calls "multiple spontaneous idiopathic symmetrical fractures" and onsiders a disease entity is systemic It involves the flat as well as the long bones It originates in the cortex, but slowly encircles the entire bone. Its special peculiarity is symmetrical involvement of the bones The onset is insidious, the cause unknown, and the course progressive with intermissions. The symptoms include a waddling gait, pain in the lower back, and localized pain in the individual bones Physical examination is essentially negative except for tenderness Roentgenograms show characteristic bands of radioparency suggesting complete disappearance of the bone structure The bone above and below the transparent zones looks normal except for thinning of the cortex There is no deformity until late in the disease, when displacement of the fragments may occur There is no attempt at repair The blood findings are essen

A case of the condition reported in detail was that of an unmarried school teacher forty-three years of age who gave a history of pain in the back and dif tially normal ficulty in walking for about seven years In the later stages of the disease a complete fracture of the right femur occurred and was followed a month later by a fracture of the left femur There was no family history of peculiar bone lesions The patient had been under medical supervision almost constantly since the onset of her illness

three defects were found in the skeleton The three defects were jound in the sacreton author reports the laboratory data, the findings in aumor reports the laboratory users, the members are serial roentgenograms, and the results of the post-mortem examination. The report of one pathologous mortem examination. mortem examination The report of one particular most (Geschickter) was osteopsathyrosis, while that gist (Cesting Nas Osteomalacia in a comparatively rare semile form A somewhat similar case has been reported by Michaelis

The author discusses the differential diagnosis at length He states that the condition must be difrengun me states that the condition must be dif-ferentiated from late rickets, osteomalacia, and fraghtas ossium So far as could be determined fraghtas ossium So far as could be determined from pathological study, the parathyroid glands are not involved. The course of the disease is not income of the disease is not income. from pathological study, the paladity one grands are not involved. The course of the disease is not influenced by heliotherapy or Vitamin D The postnuenced by nenotherapy of vicenami D the post-mortem demonstration of increased vascularity at the zones of transparency suggests a trophic dis The Calcium turbance

ore, J., and De Lorimier, A. Healing of Frac-Stream as Concerned with the Healing of Frac-Moore, J J, and De Lorimier, A Am J Roenlgenol, 1934, 32 457

The authors present the results of their investigatine authors present the results of the healing of fractures of rabbits when (1) the general tresue balance was left within normal lmits, (2) there was a shift to the acid side, and (3) an alkaline balance was produced The three groups of animals were provided with ample calgroups of animals were provided with ampie car-cium, phosphorus, and vitamins and at frequent ntervals were given calcium gluconate, lactose, and od hver oil by intubation. In the earlier expension the the table was heal or but on the later expensions. ments the tibia was broken, but in the later experiments the fractures were produced in the metatarsals in order to diminish factors which might influence healing such as hæmorrhage and the inter-Throughout the experiments roentgenographic studies and biochemical analyses position of tissue

In the first group of experiments homogeneous ossification occurred at the fracture site. In those of Group 2, in which sodium bicarbonate was added were made to the diet, an elevation of the hydrogen-ion concentration and carbon dioxide and a reduction in the calcium of the blood were found. The urmary excretion of calcium and inorganic phosphorus continued at a minimum Roentgenograms showed a less uniform ossification of the callus than in the controls In the experiments of Group 3, in which ammonium chloride was added to the diet, there was a reduction of the hydrogen-ion concentration, carbon dioxide, and calcium of the blood The urine showed an increased excretion of calcium and phosphorus Roentgenograms disclosed very feeble at-

The authors believe that in Group 2 the "calcium tempts at ossification of the callus stream" was directed toward the bone and in Group 3 away from it In conclusion they say, this evidence emphasizes the fact that for assimilation of calcium and phosphorus the chyme in the small intestine should be acid, but for the utilization of these elements, the tissue balance should be alkaline'

Books, II. Georgiene Following Fractures (Eached

id, H. Geogreme Following Fractures for Gas Gangrens). Bell J Surg. 934. The anthor presents two cases of his own and a The author presents two cases or me own and a case seen by Watson Jones in which gangrene of the case sem by visuous junes in which sengices is use extremity occurred after a fracture, and tabulates the bearings a second cases (ments of apic some extremes and recovered the personny recurrent cases, twenty as what we reported in the period from 185 to 900 ar in the period from 1900 to 1914, and severa (locations the period from 1900 to 1914, and serven (torritoring toe author's cases) in the period from 19 8 to 1935. author's cases) in the period from 10 o to 1933.

Most of the subjects were men in the active ge the lower extremity was involved about twice as And water exceeding was involved about twice as often as the upper. The fractions most often folowed by gangrens were those of the data; third of lower by gampress were uses or use onces must use the femore and those of the proximal half of the the senser and those or the proximes man or too humans. Calcification of the artery was mentioned numerus. Caumoration or can actory was menoscoped as predisposing factor in two cases, syphilis in two. as become in one the most industrial and the control of the carrier of the carrie and carpetes in one the took frequent extring of came or one gaugeness was continuou or training or the main artery with thrombods. The time of quart the institutions are the fact the blury was between their or the gangress. Her the injury was between three and six days. The most frequent time, was the and mr cays 1 he most import time was too fourth day. Amputation was performed in all but four cases. In the cases in which the outcome was recorded the mortality was to per cent. The author renoract the mortality was 14 per cent. The author cells attention to the fact that in all of the cases cates accentaged to the bart time; in an or the cases seen since the War recovery rosalted whereas in som ansea reported in the bariod from 900 to 1518 seven cases reported in the parametrion you or ayro there were four deaths, and of the cases reported before 900, death occurred to sine out of ten

note pool desire occurred in some our or term Dodd discusses the ways in which the blood supby that he interimbted (tablate synomyses). If pay may be intertrupted (suprists, coronavas) it may, "The more fixed the artery is by Isacia, by eary, 100 more usen the array is by Maca, by speciment, by proximity to bone, or by several branches arining close together the more fixely it is

to be nure.

He mentions the following right diagnostic signs (1) beenes or diminution of the arternal police bethe the knon ( ) alteration of sexuation, (4) are the sense; () attended to schooling and cyanosis of the limb, (4) loss of muscle boxet. (2) permatoms: (4) focal fundament over the power (3) mematicans, (0) seen compared wher the property of the loop as compared with the skateure proof bessetts and (9) the toentearer man regraphic demonstration of captiged attender H argins that apen such rikin and almboam occur, argins that apen such rikin and almboam occur, or a carcinos arterios raterios rat waster that when such as and aympromis versus and do not quickly subside the treatment understed is early observing with report of the artest it bossiple was no not directly alreado the freshment management as and removal of any thromber that may be found and recover or any uncomous mer may be round. refusive and a superince to cause temporary venociletes.

BARRAR B STREET M D Canapero M An Unressal Lazzation of the First
Metacarpai (So cf. ma. rara lemanase del
notacarpao) Policia Rosse, 934 41 sea ther

In a review of the humature Canavero bound that Ange, disjoint to implicit to the gest metricabel pose is very latrequent. In some of the cases reported is very introduced in some or the cases reported where the disjoint of the complexity of the transfer of the control of the contro have Up 1 ood there are reports of only there

five dislocations limited to the first metacarpal boss these were accompanied by involvement of the these were accompanied by involvement or one trapezzara ano in ma mapony ma musicanza was from a dorsel direction. Paimar and radial dislocations were exceptional

one were encapedated by Casavero was that of a boy And case reported by cases to a say that a say band while boding a matchined an injury to the band while boding a matchinek which esploded cane some sometimes a member when triposes the leaders consisted of a large lacarated and one timed would insolving the soft batts of the bejoint and dozel affects concederated to the titl fatter and corner aspects corresponding to the nine morn-digital space. The hand t the wrist was saulter custous space. And some I can wron was excused and denormed in a linear prolongation toward the base of the first restacatest. It was beid in a postoo migash passes becaution and admention con money occasion primation and squarton, with elight domination. The last four digits seen with might treamments. And was room organ we send found, strong and slightly rotated toward the other side economic on the carpon was painful. The hand had fromme on the expension of an automical and for assumed the position of an automical and for Pressure in the region of the first meticarpal base Errosore in the region of the first increasipal occur-cationed exercisiting pain. Active movement with dorsal and voltar ferrica was possible, but passers doesn and your occurs are beauties, for beauties, for beauties and eccompanied by bets movement was summer and accompanies by pass The diagram were introduce. Anteropositest and pateral countemporary accommon and the control and the control of drat and second phelanges of the thumb and radial discontion of the first metacarpal bone. Under city chloride acceptants reduction was accomplished in course ancestrated required was accompanion as fraction probled to the thumb, slight movement and palmer rotation and fraction of the fagura, beginst because on the test instruction' and coars terpressure on the docum of the traperton The acquetaton are combleted althout opposits and maintained by immobilization Rocatemograms showed it to be successful

The author discusses the pathogenesis, disposed, and symptoms of radial dislocation of the first

Benzy A. E., and Bayens, M. Fracture of the Female with Luxuities of the Ipelisters) Hip

The authors present a very careful and detailed has actions present a very carrier and occur-analysis of all cases of fracture of the fener associstand with heartion of the pub that they can stress among discover is the literature Forty two cases are tabulated, including two which ere seen at Eart of Ann Hospital in the period between one and see Three others are mentioned only is the footnote. horates the disgnosts was not clearly extended The frectures are divided into four groups fine tures of the head, fractures of the neck, fractures of the shaft, and other temoral fractures—and the arr and age mediance, type of interior, came, trement and results are reported in detail for each group

Most of the fractures of the shaft occurred is young patients. More than half of the patients with sech fractures were under twenty years of go (billy eight were somen Fractures of the head of the femur were associated with the greatest volence and in four cases one soon followed by death

The luxation was reduced in twenty-two cases in sixteen by closed methods, with good results in eleven, and in six by operation, with good results in four The results were poorest in the cases of fracture of the neck of the femur Of ten cases of such fractures, the luxation was reduced in only four Reduction was accomplished most frequently in the cases of fracture of the head of the femur The cases of fracture of the fload of the female authors say, "It would appear then that if a patient sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip femoral head a survives the force that breaks the femoral head a good result may sometimes be got by making early

Of the twenty-two reduced luxations, seventeen trial of closed reduction" were reduced before the fracture had united—twelve by closed methods, with six good results, and five

by operation, with three good results

In six cases of luxation associated with fracture of the head of the femur, the maximum interval between the accident and reduction of the luxation by closed methods was five days The only long interval was three months in a case in which reduction was effected by operation In the three cases of successful reduction of a luxation associated with a fracture of the neck of the femur, the intervals between the accident and the reduction were thirtyeight days, ten weeks, and seven months In the case in which the interval was seven months the reduction was done by open operation In the cases of fracture of the shaft of the femur the luxations were reduced by closed methods within five days

In the second part of the article the authors discuss briefly fractures of the femur caused by attempts to reduce luxation of the hip Twenty-one such fractures are reported—one of the head, seventeen of the neck, and three of the shaft of the femur

Darrach, W, and Stimson, B B Displacements in Fractures of the Neck of the Femur Ann

The authors believe that in fractures of the neck of the femur the position of the head fragment should receive more consideration, that a shift or angulation of the neck fragment either forward or backward is usual, and that the relationship of the two fragments to each other is of more importance than the change from the normal position. They are of the opinion that for recognition of the torse of the spinion that for recognition of the torse of that for recognition of the type of the displacement and satisfactory reduction the roentgen exposure in the anteroposterior plane should be supplemented by exposures in the lateral plane The article contains illustrative roentgenograms and descriptions of the types of displacements found at open operation The authors are impressed with the frequency of anterior angulation or a shifting forward or backward of the neck fragment in relation to the head, the wide variation in the position of the head fragment, the extreme mobility of the head fragment, especially in cases of subcapital fractures, and the fact that no one standard procedure will accomplish reduction. BARBARA B STIMSON, M D

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Higherton, B. IL.: On the Early Development of the Vascular System. The Development of Riscol and Blood Vessels in the Chorico of Man. Acts Sec and Frances Description 944, 9 Fac. 8,

The purpose of the investigation reported in this article was to determine whether early embryonic vasculogenesis, including blood formation, occurs in the choron of man

The material studied consisted of a zeros of 36 meters of the combron between three seeks and the facilities will feather a feek and the facilities will feather a feek and the facilities are seen and the facilities are seeks are seeks and the facilities are seeks and t

The finding slow that early foreruner stages and an unbroken that early foreruner stages entered choosen mesenchruse to the undifferentiate foreruners of the primitive red blood cells are provided to desirable the cell strate of the stage of the primitive red blood cells.

At was possible to delinquish cell armins of the primitive red blood eiths, one succeeding the other than their calls them the "believed he within the primitive red because of the "believed he resemble cells because of the "believed when the food had not be stything-red the believed on the one shad and the surpting-red the believed on the one shad and the surpting-red to the other cells arrange themes of the shifted when the food that the standard themes of the believed the standard themes of the shifted themes of the standard themes of the stan

The author concludes that in very early em-Arms and the commences tract in very carry carry carry beyonde stage (the latter helf of the third eck) the primitive ed blood cells originat cheefly from the principle of the choroone from Their menous man make to the continue from the development always show the same forerunner stages buch, up t the modile of the second em stages were, up t the tractice of the ectobal can beyond month, almost always terminate as ich by your manner, annow arways terminate as real thyord cells. The saurord cells, which occur before that time in slowly increasing numbers thereupon take the place of the schthyood cells which are then rapidly disapposing By the end of the second rapsary unappearing to the mouth secondary crythrocytes Press among the sauroed cells, and during the third and fourth months these in turn disappear leaving the sec months these in tura observed: meaning the sec andary crythrocytes a free field. The blood vessels develop from vessel anlagen which are formed, as described, in connection with the foretuneers of the

The vaculogracite potentializes, which are all most abliquitous in quite young embryos, are con-

stantly more inactived in older embyos, the acting in the formaton of two plainly duringsol also contrasting on the contrast and as a state contrasting on the contrasting of the form active none. Finally on beginning of the form active none. Finally on beginning of the contrasting of the contrasting of the contrasting of the activity in paralyzed and iransferred to other kensen posetic orpans, bitch have previously taken over the activity.

Coller F. A., and Maddock, W. G. The Function of Peripheral Vasoconstriction, Ann. Jury 014, on of:

The important part played by the extremelia is the designation of body heat is not generally man to be designation of body heat is not generally man to be important to the support of the property of the body without the property of the body without a finite constant of the body and the process before and the process before and the process before and the process before and the process of the process before and the process of the process o

In the organic type of peripheral yascular duests the primary pathological diagn is the occasion that primary pathological diagn is the occasion that primary pathological diagnosts the primary pathological diagnosts of the primary pathological diagnosts of the primary diagnosts of the primary diagnosts of the deat-diagnosts of peripheral vancountries the more normal the depression of the primary vancountries are peripherally annountries as the primary diagnosts of th

The marked improvement in vasopasis concitions which is brought about by sympathete particulations of the sum of the extremely of the sum of the extremely of the many districts there is the extremely in the many districts the sum of the extremely of the many districts the extremely of the many districts of the extremely considered before credity considered before a carnel out of the ympathetic service sympathetic services are supported by the extremely of the

Faron, H. H. The Treatment of Varicusties: Frafindingsy High Lefaction of the Internal Supernous Vein with the I jection of Sciencing Solutions. Arch Surg. 014, 20, 74

This report is based on series of 7 patients with varicous veries who are treated by legation of the haternal suphenous wan combined with the jection of aderosing solutions at the Manachusetts.

General Hospital in the period from August, 1931

to April, 1933

In many cases of varicose veins of the internal saphenous system the blood flow is reversed in the main trunk because of incompetency of the valves. This fact is readily demonstrated by the Trendelenburg test. Because of the high back-pressure, injection treatment is often not efficacious on account of the difficulty of producing adequate thrombosis and on account of the frequency of re-canalization when adequate thrombosis is produced. In the light of subsequent experience the author concludes from end results in 314 cases of varicose veins treated by the injection method alone which he reported previously that in at least 203 per cent of these cases a preliminary high ligation of the saphenous vein should have been done.

He states that in the performance of the operation it is important to divide the vein above its highest branches and at the point where it empties into the femoral vein. If a stump of saphenous vein which includes the remarkably constant 3 highest branches (namely, the superficial circumflex iliac, the superficial epigastric, and the superficial external pudendal veins) is left, the permanent success of the operation is jeopardized because of the almost certain re-establishment of varicosities through the collaterals of these branches. High ligation leaves no stump from which a thrombus can be dislodged later.

From 10 to 20 c.cm of a solution of 30 per cent invert sugar and 10 per cent sodium chloride should be injected into the saphenous vein distal to the point of division before the wound is closed

After the preliminary ligation the patient should remain ambulatory and subsequently should be given a thorough course of injections. The number of subsequent injections necessary will, of course be comparatively few as compared with the number required in cases without preliminary ligation.

The author recognizes the following 4 definite

contra-indications to ligation

1 Varicosities that are compensatory for an inadequate deep venous circulation

2 An acute inflammatory process in the groin

- 3 The presence of hæmolytic streptococci in varicose ulcers, an acute superficial phlebitis of the lower leg, or an extensive inflammatory reaction about an ulceration
- 4 Patients temporarily confined to bed, who are liable to develop untoward thromboses with later embolization

The last 3 of these contra-indications are temporary but the first is permanent

ARTHUR S W TOUROFF, M D

Smithwick, R. H., Freeman, N. E., and White, J. C. The Effect of Epinephrin on the Sympathectomized Human Extremity. An Additional Cause of Failure of Operations for Raynaud's Disease. 4rch. Surg., 1934, 29, 759

The fact that, in animals, structures innervated by the sympathetic nervous system become sensi

tized to circulating epinephrin following sympathectomy has already been demonstrated. In this report the authors present evidence showing that human blood vessels become sensitized to epinephrin in the same manner following resection of sympathetic ganglia.

Tests in a series of nine clinical cases in which complete sympathetic denervation of extremities was done revealed marked vasospasm in the presence of minute quantities of epinephrin in the circulating blood. The intravenous infusion of a 1 250,000 solution of epinephrin, an amount which causes little change in the normal extremity, is sufficient to lower the surface temperature of the denervated side as much as 15 degrees F Similar changes take place when the patient's suprarenal glands are stimulated to secrete epinephrin by insulin hypoglycemia

Identical vasospastic phenomena, which occur in sympathectomized cats and rabbits in insulin hypoglycamia, are abolished by suprarenal denervation

This hypersensitization of the arteries to epinephrin takes place only on degeneration of the vaso-motor nerves. It is not present after procaine hydrochloride block or during the first week after operation. From seven to eight days are required for its development. It constitutes a hitherto unrecognized but important cause of unsatisfactory results from operation in Raynaud's disease

SAMUEL KAHN, M D

## BLOOD, TRANSFUSION

Jegoroff, B, and Serdukoff, G The Treatment of Werlhof's Disease with Seroplacentol, Serum of the Umbilical Cord (Sur le traitement du syndrome de Werlhof, serum du cordon ombilical) Gynécologie, 1934, 33 434

Werlhof's disease, called also "the essential thrombopæma of Frank" and "purpura hæmorrhagica," constitutes a complex and sometimes serious problem

The authors review the various theories regarding the cause of the condition. While thrombopæma is one of the chief characteristics of the disease, the authors agree with others that the diminution in the number of blood platelets does not alone explain the disease. The condition of the walls of the blood vessels and of the endothelium of the capillaries also plays an important rôle. Not only the quantity, but also the quality of the blood platelets is of significance. Recent observations suggest that there may be a relationship between the thrombopæma and dysfunction of endocrine glands, particularly the ovaries.

Goudim-Levkowitch, Smirensky, and Hennig have described a so called "menstrual thrombopænia" Hennig found that in some cases the number of platelets decreases from one-half to one-third during menstruation. According to Goudim-Levkowitch, this thrombopænia may be explained by an alteration in the rhythm of maturation of the follicle and insufficiency of the corpus luteum.

Hyperfunction of the spicen has also been found during the meners. Menstrustion may therefore be temporary physiological condition of the hemorrhadic duathers characterized by crease in the number of blood platelets and prolonged bleeding time.

In 1008 Serdukud proposed the use of seroplacental" for the treatment of the hamorrhages of V chof's disease "Seroplacestol is the serum of the placental blood obtained from the placental end of the umbibest cord tollowing delivery special preparation and sterilization it is put no in

vish ready for use.

A study of the action of secondarental on the organism in a large number of gypecological discases, deliveries, poerporal diseases, and premature infants aboved that it had the following effects.

1 A definite decrease in the camoric resistance of the crythrocytes of a dynamic character. This decrease occurred within the first hour after the subcutaneous injection of the scroplacental and per

stated for forty-eight hours

. A relatively dynamic increase in the thrombocytes varying between 10,000 and 170,000. The greatest increase was observed in twenty-four hours

 An increase in the crythrocytools of the bone marrow For period of twenty four hours beginping with the first hour after the meetion there was n increase in the number of erythrocytes. The iscrease occurred chiefly is granulophylocytes. This reaction as especially marked three bours after the injection

A Besponson The injection was followed by an increase in the coardiability of the blood which personed for twenty four hours

A leucocytom However in cases of leucopenis, it had no therapeuts: effect Contraction of the capillanes

7 An increase in the calcum and phomborus content of the blood in certain cases of hypocalesemis and hypophosphatemus

It therefore produces an increase in the number of thrombocytes, acts on the electrolytes of the blood, stimulates hemstoposeus and en throposeus, and exerts a stimulating hormonal influence

The authors obtained excessful results from seroplacental treatment in 3 cases of hemotrhagic

duthess after all other methods had failed The first case was that of fourteen year-old girl who was suffering from epistaxis, exchymoses, and petechial hemorrhages all over the body probable diagnosis of enembral thrombonems was made on the basis of the findings of physical esamination and on the blood count hich aboved the blood platelets to number 36,000. After unsuccess ful creatment with natelne, acropiscentol was given by daily astranguagular miection. The daily does was increued from 1 to ro com Altogether 45 com were given. The epistasm, the bleeding from the buccal mucous membrane, and the formation of petechin and ecchymoses stopped and the number of erythrocytes increased

The second case was that of a girl twesty war. old who complained of various bleeding and corbs. mosts and punctate bemorrhages in the site. The findings of blood examination were, introoplores no per cent, erythrocytes, s.gro.coo lescocytes, 0.100 and blood platelets, 1,250 Treatment by delly intramuncular injections of aeropiacental was begun immediately. The delly dose was increased from 5 to to c.cm. In thirty days, a55 cm were given. No anaphylactic reaction or increase in the temperature was noted. The blending from the cross and skin stooped and the old ecchysions and or technal harmourhance disappeared in a few days. To combat the assemia the patient was given trans-funion of 300 c.cm. of whole blood. The day after the transfusion the bicoting from the management. the tatient completed of beariarbs peterish to peared over the entire body and the site of the transfusion showed a marked exchymosis involving the forestes and the bend of the elbow. Following trest ment with duffy injections of a con of serochcental the harmorrhages creard coronletely the or techie diminished, and the patient left the howital in good condition.

The third case was one of melena acceptoran Three days after the infant's birth profuse better there occurred from the mouth. Coffee colored material and blood clots were vomited. The bemerrhage persisted for four days and was followed by the avacuation of blood-stained meconium and the appearance of practate harmorrhages in the site. The findings of examination of the blood ere hemoglobus 33 per cent, erythrocytes, 5,010,000, leucocytes, 22,000 and platelets, 104,510. The lalant became very week and anestic. Dally invetions of sereplacental, beginning with 5 c.cm given. Altogether so cas were injected. The hamorrhages from the digestive tract stopped after three days and the petechus deseppeared after eight

days From these three cases and more than 100 07# cological, obstetrical, and pediatric cases, the asthors conclude that acroplacented treatment is to be preferred t all other methods for the arrest of ISSAC ARDROSSERS, M'D.

Glean The Treatment of Hamophilis with 0.7

be mortisee.

10 (Veber die Behandlung der Haumophile sie A T a) 33 Tay & destrict Ges / Clar Berlin, 934

is an irraducted product of expectate Q T which definitely increases the blood calcium. It has been used with completely successful results in the treatment of postoperative tetany. Although up to the present time research bus not about calcium to play a part in hemophiha, the author tried the see of OT to in the treatment of four hemophilies In the cases of two of these subjects, who are bleeding at the time they entered the clinic, the administration of from 5 to ro c can of OT re delly until total amount of from 40 to 50 c on. had been given in the first treatment period to

attended by entirely satisfactory results. As early as the second day after the beginning of the treatment the bleeding began to abate and by the fourth day it had ceased almost completely. By the seventh day after the beginning of the treatment the patients showed no further tendency to bleed. Under continued treatment the bleeding time and coagulation time returned rapidly to normal. It was surprising to the author that only very small elevations of the blood-calcium level occurred under treatment with such large doses of O.T. 10

In the cases of the two patients who were not bleeding when they came under observation the administration of OT ro restored the bleeding

time to normal.

At later examinations of the four hamophiliacs it was found that under continued treatment with O T 10 the tendency toward hamophiliac bleeding had not returned.

This report is presented with great caution, it being repeatedly emphasized that such a small number of cases of hamophilia do not constitute positive proof that O T 10 is efficacious in that condition and attention being called to the possibility of poisoning from overdosage of O T 10, which necessitates careful observations of the blood-calcium level

In the discussion of this report, Rieder reported a very successful result obtained with O T 10 in a case of severe tetany from sprue The condition had been present for years and was most evident during the winter months. Although the patient had once been benefited by parathormone, he had failed to respond to this preparation during the past year When he was referred to RIEDER he was suffering from a very severe diarrhœa (from fifteen to twenty defections a day) and the calcium content of the blood was 48 mgm per 100 c cm Within a few days after the beginning of the treat ment with OT 10, remarkable improvement was noted. The calcium content of the blood is now normal and the attacks of tetany no longer occur Under combined treatment with raw apples (as many as three a day) the diarrhoa has diminished Rieder confirmed Gissel's findings on the basis of two cases of his own

SCHOEMAKER suggested that a paucity of salts in the blood may be related to the hydrochlone and content of the stomach In support of this theory he cited two cases of uncontrollable vomiting. In the first case the vomiting began the fourth day after an operation and blood analysis disclosed hypochloræmia Following the injection of a hypertonic salt solution, the vomiting ceased. In the second case the urea content of the blood was found increased, but the chloride content of both the blood serum and the blood cells was normal. It was learned that the patient had been suffering for years from achylia gastric Therefore he had not been losing any chlorine ions in the vomitus Following treatment with a buffer solution (totofusin), the vomiting ceased These two cases show that hypertonic saline solutions should not be administered until the blood has been examined to determine whether a hypochloræmia or hyperchloræmia is present

KLAPP said that while the cautery iron is a poor hamostatic agent, electrocoagulation yielded a brilliant result in the case of a young hamophiliac with a phlegmon of the palm of the hand. Energetic electrocoagulation stopped the bleeding at once. The resulting necrotic crusts were left to separate by themselves. Klapp stated that in the future he will employ both O.T. io and local electrocoagulation in such cases. He emphasized the necessity for care in the administration of O.T. io because of the possibility of toxic accidents. (Gissel) John W. Brenan, M.D.

#### LYMPH GLANDS AND LYMPHATIC VESSELS

Zolotukhin, A A Roentgenological Method of Examination of the Lymphatic System in Man and Animals Radiology, 1934, 23 455

Roentgenological examination of the lymphatic system was begun by the author in 1928. At first, frogs were used Later it became possible to visualize the lymphatics in rabbits, dogs, and human beings. With the use of substances differing in atomic weight, it is possible to obtain stereoscopic roentgenograms of the arterial, venous, and lymphatic systems.

For visualization of the lymphatics, various substances and combinations of substances were employed For successful results the substance must produce a contrast, must be very penetrating, and must be in the form of very minute particles or grains By thorough crushing and grinding for two or three hours, the particles can be reduced to a diameter of from 3 to 5 micra. The author obtained the best results with the use of a 30 per cent solution of collargol injected with an ordinary syringe either subcutaneously or intramuscularly or into the arthral cavity of a slightly anæsthetized animal In both man and animals the solution may be injected intracutaneously on the flexor surface of the ungual phalanx Later, after a large subcutaneous lymphatic vessel has been visualized, the needle may be intro duced into this vessel or into the visualized regional gland

In conclusion the author says that visualization of the lymphatic system is of importance not only from the standpoints of anatomy and physiology, but also for study of the lymph flow in pathological conditions

EARL E BARTH, M D

Krumbhaar, E B Is Typical Hodgkin's Disease an Infection or a Neoplasm? Am J M Sc 1934, 188 597

The author reviews the literature on Hodgkin's disease and the theories regarding the nature of the condition. According to the most important theories the disease is (1) an infection of unknown character, (2) an atypical form of tuberculosis, (3) a lymphoblastoma, (4) a megakary ocytoma, and (5) a

disease intermediat between an infection and a accolumn

Hodgein puld little attention to the nature of the discuss, and of his seven cases three were cases of other diseases of the lymph vessels. In 1898 Steroberg expressed the opinion that the condition form of inherculosis and recently L'Esperance produced lesions resemblish those of Hodgkin's discust with avian tubercle becille Walker has listed twenty-seven facts suggesting a relationship between Hodgkin's chocase and t berculosis. The early stages show an increase of the endotheloid cells of lymph pulp and follocies and also of the lymphocytes, costnophiles, neutrophiles, and plasma cells which is characteristic of chronic inflammation and would be unusual for even a neoplass of the reticulo endothelial system. The giant cell becomes

prominent, and fibruda and accruits develop. Therefore the picture of liop(this a deases is that of an eadothelicot cell hyperplana with characteristic Strenberg-Reed and Langham gant cells nunerous comophiles, and other instituting cells replacing the commal lemphoned structure. Of the training that the cases, the typical cell structure was found in their cases, the typical cell structure was found in their cases, the compared the theory that the condition is a neoplasm. The lymphoned tumor called by Empa Hodgina's aureosa. It is true This is the most important histological finding in support of the

theory that the condition is necolease. A becays and histopathological report should alsays be made. For ecceptance of the theory that Hodghin's disease is a neoplastic condition if most be assumed that the characterance partner is an inflammatory response t the presence of a neoplasm which cannot be demonstrated. The tendency toward metastasis

is less marked than in tuberculous.
On the basis of the unitarian theory of hematopolnis, Miedia: segress that Hodgian disease as
related to myssical elukeranis and the crythrobiastics compared too loss many and the
biastics compared too loss may be a megabaryobiastics compared too loss may be a megabaryobiastics compared too loss may be a megabaryothe colonis amports the theory that the condition is
furchesses rather than secondaries.

While a bacterial cause has not been perred, the demonstrations that ultramacouper material (Sexta filter) from Horjatura disease can produce characteristic leasons when injected into ribbits and guinea pap supports the theory that the condition in selections.

The author concludes that the evidence is one the theory that Hodghar's dosesse is infectious and should be included among the vius docesses. He therefore believes t should be called. Hodghar duesses rather than "lymphogranistone said the cruse is determined." CLESTON CREM M.D.

Craver L. F: Five-Year Survival in Sodijkin's Disease Au J M Sc 914, 58 500

Leaver reviews 31 cases of Hodgkin's disease, to 125 of a bick the diagnosts was proved by beopsy and is 18 of which it was based entirely on the chical picture. In r 5 per cent of the total another of cases and 6 8 per tent of those in which birtyey are doos, fertheliton was followed by serviral for fer years or longer. The average ego of the peterns serviring first years (Littly-four years) was in versel only fir months or less, but the extreme of age were the same in the a great.

The difference is the scrivinal of the 2 groups were deep experiency to difference in the virulence of the disease. However, it shows do no correlation with the intelligence of the properties of the nodes received at bloopy. Favorable features were located to be single acre, early thorough resistances, theses of direct the immediation. Force, marked promise, and effect the immediation. Force, marked promise, and approximately a was supersering and very large early signs.

Leocutie, T. Irradiation to Lymphomerane, Hodgkin's Discuss, and Leuksensis (A Statistical Analysis). Am J. H. Sc., au., 131, 6

ELITORITE CRANICO

Leneutia analyses the offect of bradiction in group of s.45 cases of lymphosarrons, Bodyfish disease and leukarmia collected from the historic and ray cases observed by hismadell Ruther colagreement was found in the different groups of our reported from leading institutions in various parof the world It may be said that irradiction is the

method of choice in all 3 types of lessons In lymphosarcoms, five-year servival is obtained to 30 per cout, and ten-year survival or core in at least from to 13 per cent, of the cases fa the remaining cases the expectation of life is recreated from two and half to three and one twelfth years The immediate results are often so prompt and decouve that they may be called spectacular irradiation must be carried out with penetration rays (see ay sad a filter of from 16 to t mm of copper or stac) large doses (a po to oo per cest skin unit dose per field) and treatment of as more of the lymphatic system as possible. The eater abdomen and the mediastmen should be included in the exposures, whether the disease is localized or proceedized By such technique it is not see transi to cover from 16 to so large portals with fall or nearly full crythems doses within a period of the or three weeks. After from eight to ten eeks the trraduation should be repeated over the areas of manufest leavons with a dose of best yo per cest of the skin unit dose and from ten t twelve such later third series of urarbations with disc of 90 per cent of the skin west dose should be given In cases of Hodgkan's disease the isordeses of five year survival ranges from 15 to 33 per cent, bet as most of the patients remain carriers, frequent resumption of the irradiation is necessary. Tra-ser survival or cure is obtained in only 2 per cent of the cases at the most. In the cases of patients, he dewithin the first five years, the average experiency of

by is increased from two t three and half years

The symptomatic improvement is nearly always marked, but not as spectacular as in lymphosarcoma As a rule roentgen-ray therapy with penetrating rays (from 160 to 200 kv with a filter of from ½ to 1 mm of copper or zinc) is preferred, but in some cases favorable results have been obtained with radium packs. The dosage indicated depends upon the general condition of the patient, and the severity of the lesion. Only the diseased areas should be exposed.

In leukæmia, irradiation does not effect a cure and results in only an insignificant prolongation of life—perhaps from one third to one fourth of the natural expectancy which, in the chronic forms of both the lymphatic and the myelogenous type, is believed to be about three and a half years. However, in the chronic forms, it is followed by remarkable symptomatic improvement and an increase of at least 60 per cent in the patient's efficiency throughout the major part of the duration of the disease. In the acute forms not even temporaty improvement is noted. While there is virtual chaos concerning the technique of irradiation in this condition, the author regards it as safe and perhaps best to pursue the following course.

- I Lymphatic leukæmia Irradiate the spleen with either half-erythema doses of medium-penetrating roentgen rays or with smaller doses of harder roentgen rays and treat the enlarged lymph nodes simultaneously with the harder rays by employing the protracted fractional method spaced so as to conform to the changes occurring in the blood formula
- 2 My clogenous leukæmia Treat the spleen alone with half erythema doses of medium-penetrating rays or smaller doses of harder rays. The series, which usually should extend over two or three months, should be repeated at shorter or longer intervals, depending on the blood formula. It is harmful to try to reduce the white cell count to normal or below normal.

Leucutia does not include in his article the results of teleroentgen therapy or roentgen-ray therapy with voltages above 200 ky. He states, however, that except perhaps in certain cases of localized lymphosarcoma in which a higher penetration attainable with higher voltages is necessary, he does not believe such treatment will materially influence the results.

#### SURGICAL TECHNIOUR

#### OPERATIVE SURGERY AND TECHNIQUE: POSTOPERATIVE TREATMENT

Mayor G. Scalping and its Treatment by Trage plantation (Usber Stabierung and Transpiratetwesbehanding) 954 Meenter W Deserta-

In spite of all protective measures, skinning or scalping injuries occur repeatedly especially in the cases of women factory workers, as the tends of carelessness. When there is no connection of the avuled trans with the underlying traste, the scalping is described as complete, whereas when con-pecting bridge remains it is described as incom-

picte or better as flap wound

The mechanism by which such an injury occurs is easily understood and has been studied experimentally. A rotating part of a machine catches and twists the hair and a powerful pulling force comes into full play against the resistance of the relatively rampobile body. A purely vertical force merely pulls the hear out, but a more tangentral pull removes the scale as well. The direction of the pull is important in the possible preservation of sourishing bridge of tuess (scalp pedicle). The site of such pedicle ta, of course, always in the area where the effect of the pull was least. The operate ad extent of the text depend upon the direction of the texting force and the differences in the involved tissues. This fact explains injuries which under certain circomstances carry along the auricle and those producing a free pethole of cervical akin extending some times as far as the seventh cervical vartebra

If the gales poneurotics which is senly separated from the personteum has taken with it shreds of percenterm, abnormal conditions (necessors inverse down to the bone) must be present or the injury must have been produced by a tangentially absence force which gripped the enture scalp between the skull and a rough surface and stripped t back to one stroke. Flap wounds of this type on the apher ical upper sorface of the skull are between However manning wounds do not occur only on the bead Similar minnes of the hands, the soles of the feet, and even of the peaks have been reported to the literature

In addition to the local murry and the associated injures (fracture, raternal injury bessorthage) abook and secondary complications (crysspelas, memorits, long-continued supposation with amylosdone and sends; are of importance in the prognosis The I pury steel perser courses death, but its complicathons are often I tal When epithelialization from the outer edges is satted life may be threatened by exhaustion if severe supporation occurs. The frequently made attempt to units the entire avoked

scalp is futile because of the poor vascularisation of the bed (the periosteum of the apper bose surface) and the thrombonis of the vessels in the edges of the wound. A treatment of the flap with chemical agents can alter this. The prognosis has been resdered more favorable only since the latroduction of akin transplantation.

The history of skin transplantation been with the Reverdia procedure in 800 which, in spite of many defects, was frequently used during the war of 1870-1871 It was not would \$56 and after hear experimentation that Thierach introduced his meth od by which it is possible to cover even fresh size. defects quickly and almost compately. In this pracedure success depends spon exactness of benostants as elevation of the graft by accomplated blood keeps the graft from taking Microscopic examinations (Endericin, Marchand, Lange Garre) show however that direct union is exceptional Is general there is to be found, between the graft and to bed, layer of emodate which at first country of red blood calls among which multipoclested round cells enter from below. After twenty for hours this expedite is permeated by throbbats with large model which constantly increase and thereby form a granulation theme. In this granulation three there appear on the third or fourth day, perpendicular to the firming surfaces, thus walled hollow cylinders which represent the beginning of reaction connection between the bed and the graft The slowly growing epitheform then creeps over the unevennesses of the bed, and by the texth day the boundaries between the graft and its bed are difficult to distinguish. The thinner the layer of blood between the graft and its bed the faster the bealing process, conditions being almost the same as in primary wound bealing

Fination of the transplanted skin graft occurs by means of the growing scross of blood result. The first histological changes are manifested as early se the end of the month hour by the penetration of lexcocytes through the explate fato the connective transc spaces of the undersurface. After leasuring and infiltration, the consecure tunes cells take part is the problerating processes. Host of the vession degenerate and after the third day westy ferred vascular aprouts take over the circulation between the bed and the graft Reverds observed the adhesion of bets of side which ere still move the after forty-eight bours. Under such circumstances an omnetic exchange of times field must play a rise in the preservation of the grafts. The services demonstrated by Emissiein is clinically of secondary interest Notes orthy however, is his demonstration of the fact that the superimposed sire can be penetrated by capillaries after eighteen boars

The often observed process of separation of the superficial layer (papillary bodies with an epithelial covering), the so called eschar, does not jeopardize the result. The lowest layer with its sweat glands still permits creeping of the epithelium separating process seems to be favored by salves and moist dressings When dry dressings are used (Lexer, Brunner), separation does not take place until the deeper layer has grown fixed and resistant

On examination several months later the epithehalized area is found slightly red, shiny, and on a level with the surrounding skin. It seldom has normal sensibility It shows slight tendency to shrink and at first is still scaling. The amount of desquamation depends upon the blood supply, as do also the correction of the differences of level and the mobility of the scar Because of the presence of elastic elements the scar can sometimes be lifted up in folds Scar contraction seldom occurs when Thiersch skin grafts are used Irregular brownish pigmentations, which often persist for years, are due to changes in the blood pigment beneath the graft Return of sensibility takes a long time In some cases of large defects sensibility may remain absent. In others it may be limited to the edges of the graft as the nerve fibers apparently grow in from the edges rather than from below

The thinner the graft the better the union (Garré), the better the circulation of the plasma, and the better the adaptation of the graft to the uneven bed. The adaptation of the graft can be improved by the avoidance of empty spaces by sponge pressure. A surface as dry as possible heals best Therefore grafting should be delayed until the bloody

Only autoplastic skin transplantations are suc-All attempts (Lexer) with homoplastic exudate ceases material have failed "The trouble and pain of a donor are always in vain" Moreover, time is lost.

In cases of stripping of the sole of the foot the use of a transplant from the thigh of the other leg or of fat grafts from the buttocks is advisable because of the excessive tenderness of newly formed

Large flap wounds with a wide pedicle should be tissue on the sole of the foot. merely closed over a drain When the pedicle is narrow, primary reduction of the defect should be

done and followed by the use of Thiersch grafts In conclusion the author reviews seventy cases of scalping or skinning injuries collected from the

literature

(LAMPRECHT) THOMAS W STEVENSON, JR., M D

Postoperative States of Excitement Arch Neurol & Psychiat, 1934, 32 681 Muncle, W

Acute postoperative psychoses were first described by Dupuytren in 1810 in reporting a case scribed by Dupuytien in 1919 in reporting a case of "delirium nervosum" Following the advent of antiseptic surgery they received increased attention and in the middle of the century antiseptics were considered an etiological factor With the development of asepsis, toric manifestations became less

frequent and anæsthetics came to be regarded as principal factors although pre existing mental disorders, chronic alcoholism, sepsis, fever, dehydration, anæmia, and cachexia were also considered of

On the basis of Magnan's ideas concerning degeneracy, the suggestion was made that postoperaetiological importance tive psychoses might be due to a constitutional predisposition, the operation being merely a pre-

Bonhoeffer, recognizing the great diversity of etiological factors involved in the production of cipitating factor psychoses, brought some order by his classification of symptomatic psychoses To these psychoses Kleist later added postoperative psychoses America the importance of infection has been stressed and postoperative psychoses have been linked with puerperal psychoses In the literature the psychogenic factors have been neglected. Four psychogenic cases carefully studied showed that fear associated with mistrust and depression is a predominating factor while toxic factors are of

Fear and depression are often produced by the minor importance patient's associates or medical attendants activities of medical assistants, the irritation of misunderstanding, and insistence on routine medication all play an important part in the production and perpetuation of fear and depression When fear is marked and cannot be allayed by ordinary assurance, operation should be delayed if possible

## ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

De Dziembowski, M S Treatment of Wounds by the Local Application of Whale Oil (Traitement des plaies par application locale d'huile de baleine) Bull et mem Soc d'chirurgiens de Par, 1934, 26

Reports of favorable results from the local application of vitamins to wounds led the author to use whale oil on extensive infected wounds as recommended by Loehr Whale oil is sterile Even streptococci and virulent staphylococci do not grow in it Therefore it does not require sterilization, which

Lochr reports excellent results in cases of extensive would destroy its vitamins

infected wounds, lacerations, and burns

Thorough cleansing and removal of necrotic tissues is necessary before application of the oil Treatment with whale oil is superior to ordinary methods with changing of dressings and the use of drains which injure granulations and delay epithelization, thereby favoring scar formation In cases of large wounds, especially large wounds of the fascia and tendons, foreign bodies (drains, gauze, and chemicals) and Bier's hyperæmia are contra-indicated In cases of extensive wounds of the hand it is best to limit suturing to the minimum and treat with an ointment of whale oil plus fixation

The uthor uses a so per cent circument of whole oil in vascine. H states that debrifement must not be too extensive. Just ordinary cleaning and removal of dead tuses and foreign holds should be done. This should be followed by the polacition of a third, layer of the outhernt and immobilization in plaster or starch. The dreasing should not be chanced for from one to two weeks.

Skin is very tolerant to whale oil in vassline. Ne complications such as ecrema have been noted after long applications of the oil, even hen they have been made in the presence of pass, abscesses, or

phiegmons

When whale oil in vaseline is applied to stumps the sans will be not. The uthor has obtained favor able results from its use also in berns. He canpleasizes that the drawing abould be left no for long periods of time. Just H. Gaziner, 11 D.

Reportin, E. Experimental Researches as the Action of the Ultraviolet Rays in the Besling by Frimmey or Secondary Intention of Woman of the Salas, Sinnelsa, and Permethymateus Ovsell assess de nigg pittravioletti act process de gampoos per puna second intensions deside fetta della cett, de mostoù deph opput parachiatantom-legita nation) and had he de degation and de la de-la de-la de-la de-la de-la de-la dela de-la de-

From extensive experiments on rabbits and a review of the hterature the thor draws the following conclusions

In cutaneous wounds subjected to their direct and local action, the siltraviolet raws have a favor able effect on beahag by primary intention and cause more recal destruction.

more regad exestruction.

They have no direct effect on healing by primery intention in wounds of muchs.

3 When they are applied beyond the wounded area, they have so effect on wounds of skin or mostle

area, tasy nave so erect on women or sum or measure

4. I wounds of skin exposed to local treadlation

with the ultraviolet rays, healing by secondary
intention is businesed.

5 The ultraviolet rays ha no direct action on the bealing of muscle ounds by secondary latenton 6 They have no effect, local or general, direct or fadurer. A the healist of acousis of parenchyma-

tom organs—liver and spleen—by secondary intention 1 The favorable influence on the process of

cicatnusmon in primary and secondary union of size ounds is due to vasodilatation and new visible formation.

8 As no general reaction is noted, the effect on

the ensuranteen of conds must be due to the rays themselves and not to irradiated air or gas accordant to the rays Joan H GARLOCK, M D

Schapira, C. Feet Traumatic Gestionations (Suleounications port (numericle). Che che: \$34, 007.

The author reports to cases of post traumatic conficution which were rather unusual as the out-

fication occurred, not in the massies, but as the pure-articular theore, particularly the joint cap suite. One of these was namesal also in the feet ther the joint involved was the aboulder. The nonnumerous use of such oseffications is the obser-

The first case was that of a man thirty ery on your of age. During the war the patient received the expericial abrapoel wounds, one in the right shoul der and the other in the right beel, and on Adress a 1913, he sustained a contusion of the right other and a dislocation of the right shoulder in belse thrown from a horse. The dislocation as reduced about an hour later a ithout any particula deficults After immobilization of the arm for dishteen del active and passive movements were began The movements were very parabul and marketly husted Roentgen examination on September 27 showed the faint to be normal, but disclosed in the triangular space below the joint, between the median edge of the hamorus and the lateral margin of the scandle an irregular abadow made up of a sumber of setti arparated by transparent sones and presented a prolongation toward the write. As the confication sy very near the axilla, operation was performed to prevent its extended to the apillary venels sad nerves. The oscillestion was found to savolve large part of the foint capsule. The subcapsular had the sporarence of normal bone. Its removal necessitated detachment of the capsule which was thickened and had become incorporated with the newly formed bone in its antero-interior part. Recovery resulted with limitation of movement of the aboulder joint. There has been no further new production of bone.

The second case was that of woman thirty four years of age a bo mustained a fracture of the effort m falling from bleyels on October a, 1933. The joint was immobilised for two weeks. At the end of that time movements were limited and painful Rossips examination showed the fracture fragment still deplaced. In addition to the callon lich ented the tragment to the head of the radius, there as an confication on the lateral side of the reductioners ately below the head. This was less dense than an mel bone and was arparated from the cortex of the transparent like thanhysis of the radius by Operation performed on January to showed a men of newly formed bone poerently originating from the joint rapsale, from which it could be separated only artificially and showing only sight connections with the conclyle of the humerus and the seck of the radius. The muscles were not involved, but the deep surface of the aurular beament was invaded by the nealy formed bene. The haument was therefore removed together with the remains of the expect and the head of the radius. In this case operation was performed too recently to allow jodgment of the late results

I conclusion the author says that operates is not indicated in cases of post transmits conficutes unless there is serious impairment of function of pressure on nerves, and should not be performed until the ossification has reached its maximum, which requires from six months to a year AUDREY GOSS MORGAN, M D

Fedorovich, D Treatment of Pyogenic Surgical Diseases with Artificial Gastric Juice Vestn Khir \* pogran obl., 1934, 33 135

The experiments of Taure, Pavlov, and others proved that the gastric juice has an antiseptic action It kills the cholera vibrion, the typhus bacillus, and the paratyphus bacillus in fifteen seconds Its bactericidal action is greatest when its acidity is between 60 and 70. In experimental investigations, Rozansky found the best antiseptics to be brilliant green, rivanol solution, and artificial gastric juice These experiments were controlled by investigations in 200 clinical cases. One hundred of the patients (25 of whom had suppurations) were treated with iodine solution and 100 (10 with suppurations) with gastric juice Vanovsky treated 30 cases of complicated fracture with gastric juice In most of them the treatment was begun after six Suppuration occurred in only 3 cases Of 50 cases of phlegmons and osteomyelitis which were treated with gastric juice after operation, the temperature became normal on the following day in 35 and on the third day in 12, whereas in a control series of 50 cases of phlegmons treated by ordinary methods the temperature did not become normal until the fifth day or later. When gastric juice was used the average time of treatment was nine days shorter

The action of the gastric juice is due not only to its bactericidal property but also to its ferments which accelerate autolysis of the tissues

The formula for artificial gastric juice is as follows dilute hydrochloric acid, 18 c cm, pepsin, 20 gm, distilled water, 100 c cm, and glycerin, 5 c cm M Shberberg, M D

Ritter, C The Importance of Bacteria in Surgical Infections (Die Bedeutung der Bakterien fuer die chirurgischen Infektionen) 58 Tag d deutsch Ges f Chir, Berlin, 1934

In disagreement with the prevailing theory of the predominant importance of bacteria in the development and treatment of surgical suppurative infections, Ritter believes that the chief factor is, not the bacteria, but the necrosis of the tissues. He states that the necrosis is not the result, but the cause, of the suppuration With its elimination the suppuration disappears even though a considerable number of bacteria remain Accordingly, treatment should be directed chiefly to removal of the necrosis The cauterization of phlegmons by Bier's method causes healing, not by killing the bacteria, but by removing the necrosis Its action is similar to that of the excision of crushed wound edges by the method of Friedrich, which renders primary suture possible, and to that of the radical removal of burned vesicular epidermis, which is followed by smooth healing

under a dressing Even when treated with cod liver oil, a wound continues to suppurate until the necrosis is eliminated. For the phrase "ubi pus ibi evacua" should be substituted the phrase "ubi necrosis ibi elimine." The elimination of necrotic tissue may be hastened even without operative removal. This may be accomplished by stasis since, in the presence of hyperæmia, the still viable tissue is under favorable conditions of nutrition so that the bacteria are deprived of their power of colonization, the reparative processes are strengthened, and the destroyed tissues are more rapidly separated and absorbed or thrown off

As treatment, Ritter therefore recommends rest obtained with the use of the closed plaster cast which he first suggested in 1916 for the treatment of infectious processes including subacute septic-suppurative gunshot wounds of joints, suppurations of bones and soft tissues, and bone fistulæ. This cast places the wound at rest by preventing irritation. As a result, the suppuration is greatly reduced and the weakened body is enabled to concentrate its powers against the most important irritant, the necrosis

In conclusion Ritter says that the theory that necrosis is caused by bacteria and their toxins has not been proved Numerous facts indicate that, as in suppurations from trauma and burns, so also in suppurative surgical diseases such as acute osteomyelitis, appendicitis, and cholecystitis, primary mechanical and chemical effects and nutritional disturbances may produce necroses in which bacteria colonize secondarily

(RITTER) LOUIS NEUWELT, M D

Florey, H W, Harding, H E, and Fildes, P The Treatment of Tetanus Lancet, 1934, 227 1036

The authors state that if recovery from tetanus occurs it is complete, that is, there is no residual muscular impairment. It is evident, therefore, that the toxin can be eliminated completely, the nerve cells being left intact Antitoxin, even in large doses, is apparently incapable of removing toxin already fixed to the nerve cells, but the toxin is probably slowly oxidized The authors believe that if the patient can be saved from the exhaustion caused by prolonged spasms and can be supplied with sufficient water and food, it should be possible to keep him alive long enough to permit oxidation of the toxin They therefore tried prolonged anæsthesia and administered curare to paralyze the muscular contractions, keeping the patient in a Drinker respirator

Most of the studies reported in this article were of an experimental nature. Cats and rabbits were used. After the administration of an initial lethal dose of tetanus town, the animals were kept alive and free from convulsions by continuous anæsthesia. However, they all died of bronchopneumonia because of the great sensitivity of their pulmonary tissue.

In a series of experiments in which curare was used it was found that this drug is capable of par-

tially bolishing the muscular paralysis. The great cheedvantage of its one is carelysis of the disphrasm On the basis of their experiments and clinical observations the authors suggest the following treat

ment for homen telame r Oulet to exclude external atimul-

 The administration of large doses of tetange antitorin, preferably by intravenous injection. s. Exclavon of the original wound

4 Control of convulsions and rigidity by the contingous administration of pitrous oxide and oxyeca. and careful use of curare with the Drinker respirator always at hand low H. Gunore, M.D.

Bary, L. Anti-Telamus Vaccination (La vaccination anti tétanique) Preum mil Par rota, a

Valley and Bary made the first intuitations was clostion in 917 Basy emphasizes the responability of the physician in determining a ben the use of anti-tetanus serum is indicated and discusses the dangers of sera of horse origin

As physician for a large nulroad company Basy vaccinates against tetanes all rellroad employees who volunteer The employees are offered also anti-typhoid and anti-diphthentic treatment. The serological record of each employee is kept on a card

The handling of packages and animals from all parts of the country makes tetames infection to be especially feared. Bany points out that army horses are regularly vaccinated against tetapus, but not the men who use them. He arges general anti-tetames vaccination JOSEPH GARLOCK, M D.

School H. The Prephylesis of Tetanon and Serum Mickiness (Tetanusprophylers and Sarambrank heat Schress med II charefur 924.

Although most physicians are in favor of prophylaris, the problem is still a subject of dispute, especially since Doenler recently opposed prophy laxis It is the danger of serum mekness that makes many physicians bentate. In sensitive individuals and those who have received repeated unvertices serum sickness usually develops in from four to serves days after the treatment whereas in persons not previously treated t usually does not develop until after from eight to eleven days. The clinical manifestations-bradache, fatigue, fever articaria with pruritus, transcent cedems, joint swellingssocially however they persist for five days or longer Anaphylacts, shock with death occurs once in co.coo injections. Measures for the prevention of screen sections include

1. The use of scrutz from a different species (bovine ecruss) for re-expections

s Description by the method of Barredka and the use of intracutaneous tests. If after the intracutaneous administration of or com of serum diluted 100 times th physiological salt sol tion a redness appears about the skin wheal affergy # present

The use of high-grade and refined were inquiry among physicians disclosed that the al lergic effect of the sens differed according to the source of the severa Statistics based on 1 cm care which were obtained by questionnaire sent set by the Swim Accident Insurance lamutate showed that a seneral scrum sickness occurred as about to per cent, and that the results cannot be much improved by the sec of a commercial serum. It is a striking fact that the re-injection of pasteurand Pasteur screm is followed by reaction considerably in frequently W th regard to the question as to whether the use of high-grade and reford are carnes serura reactions less frequently the criticals is marficlest (Fa vz) JOSY H GUSSECK, M D

Busello, A.: Serum Shock and Secum Science Following Tetanus Vaccination and Its Treat sorat (Stramsbock and Stransmakles) and Tetamencherzdusphang und ihre Brinnellung) Deutsche und Statesche (114, 13)

Busello defines serum shock and serum prisess as a reaction between antigen (foreign protes) and the autibodies formed against it. He states the every serum contains album; and rlobuha TM globulm bleb h latter is broken down into dissolved with difficulty and parendo plobales which dissolves easily Buzello interprets the sechanics of amphylaxis as a process in bich the former is transformed into the latter to the form of fine precipitate which is capable of producing obstruction in the explicance

Serves abook occurs introductely after the lake tion, usually when a repeated intravenous injection is given to an individual also has recei ed present injections and the period between the injections is short It causes pallor chills, voniting, circulature fashura, collapse dyaptors, convalsions, and per sibly death It is very infrequent As a rate it occurs when, in prophylactic vaccination, very large doses are given intravenously because of the development of tetamps. Bruce reported that arrest shock occurred only twice in ,000 000 prephylects: inoculations, but 40 times with 12 deaths in cases of therapeutic mornistions. The treatment should include the latrarenous injection of a con si carduaci, the subcutaneous injection of com of

,000 solution of adrenaha, large hairsvesses infusions of warm 8 per cent somen chlorde solution and artificial respiration. \ on Stark resbated shock to one case by bight ether narrask

Prophy bectic injections should als yabe gives subcutaneously and slowly. In the cases of persons previously inoculated, bovine serum is presented (Behring) The serum should be given lake the patient is still under sarcous for trustment of the ound Describination is not cry moresful As injection of or a cm of screen is given intrad after three or four hours larger muscularly

dose is given (Bearedits) Serum sackness is frequent. If cases showing the slightest articaria t the sits of the injection are included, its incidence is 40 per cent. As a rule it develops in from seven to nine days, but in persons who have been treated previously it develops in four or five days. The symptoms vary from mild to very severe The most important are urticaria, œdema, joint swellings, diarrhœa These usually subside in four or five days and leave no sequely Polyneuritis and paresis of the arms are rare. In children the symptoms are always very much more severe than in adults and dyspnæa occurs because of cedema of the glottis Therefore the patient must be natched carefully However, tracheotomy has never been necessary in the author's cases The treatment indicated includes dry powder treatment, the administration of heart stimulants, and the intramuscular injection of from 5 to 10 c.cm of calcium glycuronic acid However, this treatment does not affect the duration of the condition, it merely relieves the spasms and other symptoms Buzello has not found Rother's autohæmotherapy successful On the other hand, he has obtained good results from the subcutaneous injection of an additional 5 c.cm of the tetanus serum at the onset of the serum sickness. In his small number of cases the serum sickness did not become more severe or recur over a prolonged period of observation

In conclusion the author says that the prophylactic injection of tetanus serum should not be withheld because of the possibility of serum shock and serum sickness, but the patient should be advised of the possibility of these conditions in advance (Frank) John H. Garlock, M.D.

#### ANÆSTHESIA

Crampton, H P Factors Other Than Anæsthetics Affecting Anæsthesia Proc Roy Soc Med, Lond, 1934, 28 91

The author limits himself to a consideration of the psychological factors which favor or militate against the induction of smooth anæsthesia. In discussing the reaction of various types of patients to an esthetic agents he states that persons with well-disciplined minds take anæsthetics well whereas those with undisciplined minds and spoiled children take them poorly "Those who boldly admit their fear are as a rule quicker in reaching a smooth anæsthesia than those who suppress it it is surprising how few people are in a state of real panic at the zero hour" Alcoholic addicts require more anæsthesia than persons not addicted to alcohol and recover quickly "Cheery alcoholics" take anæsthetics better than others In the author's cases alcoholic addicts are given alcohol "neat" before operation Crampton says, "If he drinks or smokes to excess, by all means begin a cure after anæsthesia rather than before "

With regard to the anæsthetist, Crampton discusses "stage management, judgment, and personality" He states that without these attributes the anæsthetist is "a mere retailer of dope" Under "stage management" he mentions rest before in-

duction of the anæsthesia, tranquillity of mind, bodily comfort, position, and preparation of the patient, and punctuality of the operation Under "personality" he discusses briefly the Art of anæsthesia G Daniel Delprat, M D

Sise, L F The Technique of Intratracheal Anæsthesia Surg Clin North 1m, 1934, 14 1049

The author describes the technique of the induction of intratracheal anæsthesia with particular regard to the technique of direct laryngoscopy and intubation. He states that the intratracheal method is of great value and, if correctly carried out,

is quite simple and easy

The anesthesia is an important factor influencing the ease of intubation. Practically any of the anesthetic agents—cocaine, nitrous oxide, ether, or avertin—may be used, either alone or in a combination. Intubation is greatly facilitated if the agent chosen and the plane of depth are such that the cords are well relaxed and wide apart, if the anesthesia is of sufficient duration to permit intubation before sensation returns to the larving and the cords become approximated, and, when intubation is done through the mouth, the jaw is sufficiently relaxed to open easily

The type of anæsthesia which meets these requirements best is induced with avertin and local anæs-

thesia of the lary nx

The avertin need be given only in sufficient amount to put the patient sound asleep. For the induction of local anæsthesia the author sprays the larynx with 10 per cent cocaine through an airway after the patient is under the influence of the avertin.

I FRANK DOUGHTS, M D

Barlow, O W, Fife, G L, and Hodgins, A C Avertin in Pre-Anæsthetic Medication A Survey of 1 831 Surgical Anæsthesias Arch Surg 1034, 20 Sto

The authors reviewed a series of 1,831 avertin anæsthesias induced on a general surgical service since 1930. The avertin was given in doses of from 50 to 100 mgm per kilogram following the preliminary administration of morphine and atropin and was supplemented by several types of general anæsthesia.

The dose of the hypnotic was adapted to the age and general condition of the patient. Patients from one to eighteen years of age received maximal doses—from 90 to 100 mgm per kilogram—and aged patients as a rule received minimal doses. The optimal average dose for adults appeared to be from 80 to 85 mgm. per kilogram

Ninety-two per cent of patients came to the operating room asleep Occasionally—as a rule following medication with small doses—movements persisted On their arrival in the operating room the patients were usually relaxed and, although satisfactorily analgesic, still responded to painful stimuli. The pulse rate was variable, occasionally wide oscillations on either side of the normal rate

were noted. The medical rate increased alightly were noted. The means rate increased ungarry when small does were given but was either un-changed or slightly depressed by maximal does the contract of the late. The extremes of ago, were associated with the least And Catteriors of ago were associated with one asset namely too next pressure and pune rate non-an inverse relation. The mechan blood pressure de an inverse reserves. The incinent become parameter of created 18 per cent, 1th a maximal range of from Changes are minimal to young patients and make the cont above 1 40 per cent below normal per contradiction of the contradiction of months. Changes were minimal in Journ princips and mixed making fed patients. The respiratory rate, as either nocytudes; or exceptively by wedgerigod it a rainite morphism of the laboratory and the contract of the contra nacration of respiration occurred the respiatory rate increaser. Any vocame was removing more shallow. The minute volume was depressed in more scanner the dose of the hypnotic administred in The decrease varied from An account value from to a per test name to sugar design from to a per test name to sugar design from the manual account of the country of th to make were than to excellence come than 5

The induction of anaesthesia was raped. From so to 85 per cent of the annularities were good, the to of her cent or too Poor anestheras acre from the tenancer can or poor your anestocasa area more response and small trace of evertile and when the average as exponented with other than when it a supplemented by some other senser man when a way as supplemented by some other senser man when a was supplemented by some other sectors amendments acts not introduct when exectly wer given in queen were not introduced when a section was piret in these as high as from 90 to 00 mpm per kilophin Paas upp as from 00 to 00 mgm per successor ex-tents operated upon for throok per successor ex-logical conditions responded less saturactorily than barjents obeasted bon the other conditions. Across where consistence tentered to the structure of the struct partients operated. For the occur togethers and makes

The pulse rate was acrelerated from ocat above normal during the anesthesia. The decont shows normal natural on sincerioses the one gree or change was variance but growny lawser thoral to the dose of the hypnotic administrate tions to the cose of the approve administered under constant conditions as reparts are and the to 40 per

theory constant transforms as regards ago and the majorimentary attractions.

The blood pressure increased during the come of the obsertion and battally or combettely comberthe observed and harmen's or compacted, combactors, combactors, compacting of the fall (part occurred followed between temperature). serso for the an use occurrence ones wing premiums too. The increase was greatest after minimal doses then the introduction was greatest after minimal comments of a vertile, and was distinctly less in a good patients. than in younger patients given similar motion tion The blood pressure of patients operated upon for thyrold conditions increased ( cayrout common increases t argumentary to other complicion. The increase in the districts to vision transitions the increase in the operating was consider freetor than the accompanying

The respiratory rate increased from 50 to 60 per And replantary has increased from 40 to 80 per cont during the anesthesia. The rolume remained more hallow than arma! The require remained nous matters than method and temperature services non Prairie tonowing Premiunation was pro-constructed by the ameribetic procedures. The margin of selects was narrowed and the transmitter carry or sately was native of and the insposance of carbon dioxede reduced. The disturbance dunfinished somewhat as the effects of the vertile and of lostobersties in the exercise of the anticonstruction and the contract of the anticonstruction and the contract of the anticonstruction and the contract of the contrac marined effective above months (or from one to pap another instrumentarisms) the resolutions have

hours. The minute volume became either sormal Acting The minute volume occurs other acting of approached the level ( premedication Excep-

Postoperative registrations was observed in home to go bet cent of the cener. It are not incupe an incurrence are constant in most accordance and constant in most accordance a so to to per cent or the cases, it was not unumerating standpoint, but from 50 to too be cent of the nations in party ten; or propertoo per cent or can restone patients reen en nonection. The incidence of restbactons bors as britted Don the incurrence or restaurance over an irrestance for the hypothe done administration for the hypothe done administration for the following are noted amount the Antons surfaces for the test was noted among the various surface glocks. It sons for the companyers of the control of the posterior and the control of the posterior and the control of the to be causered by other whereas moreovers see injuries in the biomics of local greatests making in the carefular by circl Andreas making in the carefular by circl Andreas making in the carefular by circle Andreas making in the carefular by circle Andreas making in the carefular by circle Andreas making in the promise of local greatests.

minimal in the presence of some assessment.

The duration of the postoperative sleep here into
relation to the dose of stretch administrant. The period of postoperative menoaccountries are seimposently influenced by the nature of the surrivate supplement and the duration and service of the supplement and the direction and swemly or as experience. Forcedures It was greated been displaced and supplement It was greated been applicable. Notice occurred the special assertion to the supplement In his successful, where supplement In his successful, where supplement in his successful, where supplies to respect to the successful was supplied to respect to the supplier to the

over anomalous poets and also because the to tests than normal adults.

heaves and emess occurred in the postoperation period in approximately so per cent of the production of the production of the period. applicated to general surfices observations. Their in dillipide and descript in british observed and in doctor, ass steamen in batterns obstation and the conditions and batterns obstation and the conditions and the conditions are conditions. and the the special to be not income as females than in males and somewhat more inquest in apen small space of the phibotic seal than the when maximal doses as the milestra are-

A medicate described administration of a section of a sec gring taken twenty four boom after the operation active takent trainty tour moons arise the operation aboved albumin in ). Per cent of the cases and cases in 7 per cent. The inspority of the specimen takes toom tooth-with to examine the point business thirty spound to appoint or crist pat satisfies ally traces of allocatin and casts personnel for several day Traces of sugar were sound not infrastructure security. cary. These of super were noted not intropered to the re-considered camer portion. However, as it is still which was taken to say the property of the contract from the contract for more than the contract from the contract for the contract

morphine, stropping, and averting memoration or many and averting included in the common common and averting included in the common common and averting included in the common co agradient fall to the blood pressure and definer depression of the resistancy volume, where ear scoully was marked. If the depression as specific cent the temptatory rate because according cam one respiration was apparent drame the Variations as the constitute margin was reduced One pottent became hyperical and snother vosmed

the property of the administration of the impacts Short reactions of greater or less degree were short served in approximated eases to approximate per cent of the postoperation of in the postoperation of in the postoperation of these the blood pressure because per cent of the case imbasschelppe and trestment are tedepart

be prepared to defend his choice in case of failure Irradiation treatment requires a comprehensive knowledge of chinical behavior, pathological varieties of tumors, and radiophysiological phenomena related to tumors

A radioresistant tumor is defined as a neoplasm which cannot be completely sterilized without serious damage to the surrounding normal tissues. A small radioresistant lesion can be cured by intense local irradiation, but if radionecrosis results in the tumor bed, surgery would have been better. However, there are tumors possessing an intermediate degree of radiosensitivity which can be eradicated by interstitial irradiation without radionecrosis. An excellent example of this type is carcinoma of the breast

Repeated irradiations over a prolonged period of time seem to increase the radioresistance of a tumor and render normal cells radiosensitive. On the other hand, it has been found that irradiation continued over a considerable period of time may be more adequate than the use of a greater intensity for a short In this respect the saturation method of Pfahler resembles to some extent the technique of Coutard The results obtained by Coutard and Berven in carcinoma of the tonsil have markedly advanced the irradiation treatment of these lesions The author describes Coutard's technique He, himself, has adopted the technique of teleradiumtherapy which differs from the Coutard method in utilizing the more penetrating gamma rays of radium and more fully extending the principle of continuity of irradiation The pack is used twice daily on consecutive days without interruption for a period of from twenty to sixty days The collection of data regarding this treatment will serve for a comparison between the biological effects and clinical results of Xrays and gamma rays Continuity of irradiation may be one of the most important factors in the sterilizing of neoplasms Other problems to be considered are the total interval during which the irradiation is best given and the intensity of the irradiation

A JAMES LARKIN, M D

Bertolotto, U Roentgen Therapy of Gynecological Inflammations (La roentgenterapia nelle forme inflammatorie ginecologiche) Radiol med, 1934, 21 1103

The author reports briefly fifty-three cases of various types of gynecological inflammation which were treated by roentgen therapy. He used a Koch and Sterzel super-universal apparatus with four valves. The focus-skin distance was 30 cm, and the filter, 05 mm of copper and 3 mm of aluminum. The tension varied from 120 to 180 kV, but in the majority of the cases was 150 kV. The fields in the lower quadrants of the abdomen varied from 150 to 400 sq cm. The half-value layer was 06 mm of copper up to 120 kV, 065 mm from 120 to 150 kV, and 09 mm from 150 to 180 kV. Hammer's dosimeter was used. The doses were small Doses of 50 r or less repeated three times in twelve days were

given in cases of acute inflammation with circumscribed exudate and doses of from 75 to 100 r repeated two or three times in cases of pelviperitonitis and parametritis with extensive exudate. In a number of cases doses as low as 20 r yielded excellent results

Excellent results were obtained in 37 per cent of the cases and good results-marked improvement in the general condition, abolition of pain, and a decided decrease but not total disappearance of exudate-also in 37 per cent The best results were obtained in cases of acute puerperal infection This is contrary to the experience reported by some gynecologists who advise against using irradiation in acute febrile cases The author did not find the results any poorer in cases of inflammation due to gonorrhœa There were only two cases in which the inflammation was aggravated One special advantage of the treatment is the rapid and complete control of the pain which makes it possible to institute local treatment Several days are gained in this The author cites a case in which the irradiation brought about such marked improvement in the general condition and such reduction of the exudate that a cyst could be diagnosed and operated upon successfully

Roentgen irradiation effects a cure considerably more quickly than medical treatment. In the cases reviewed the roentgen treatment was associated with medical treatment and rest, which were also factors in the cure

Roentgen irradiation is indicated particularly in septic puerperal conditions In such conditions and the acute forms of inflammation of the adnexa it should be given as early as possible It is less effective in chronic cases Some gynecologists recommend temporary castration in these cases. In pelviperitoritis with extensive exudate the results are not so good and caution is necessary particularly if the general condition is poor The results are not good in endometritis and cervicitis Probably the intrauterine sepsis keeps up the inflammation in these Pregnancy is not a contra-indication conditions In the author's opinion there is no definite proof that the treatment is injurious to the child

Audrey Goss Morgan, M D

Desjardins, A. U. A Classification of Tumors from the Standpoint of Radiosensitiveness 4m J Roenigenol, 1934, 32 493

As Ewing and many others have shown, variations in the radiosensitiveness of neoplasms are caused by a number of factors. Among these may be mentioned impairment of the blood supply, a disturbance of the anatomical relations which probably acts mainly by interfering with the circulation and lymphatic drainage and inducing the formation of connective tissue, cachexia, which is evidence that the patient's resistance to, and ability to hold his own against, the malignant process has been almost or entirely exhausted, sepsis, the influence of which is not understood, and previous irradiation.

## PHYSICOCHEMICAL METHODS IN SURGERY

Cutler M. The Problem of Radiosemettivity

The author presents a critical review of the prob-And antitor presents a critical review or the proo-lems of radiosensitivity from the standpoint of blosome or recommentarity from the standpoint or osciological, pathological, and clinical knowledge, probespecia, perimenspecia, and citizens convecting, proc-lems life are of concern to the pathologist, sur-group, and the radiologist. He states that while comments agramous cell carcinoms was thought to be radiocessation by most investigators, the French achool aboved that the reastance of this timor was school source that the renstance of this tumor was due entirely to technique and douge. Squamous cells are resistant to short intense exposures, but schrenors caucinoms can be teachly sterified by confirmed low intensity exposures adequate in adequate in song-continued son internety exposures anaquate in amount. Cotter otes numerous matances in which amount carcinoms stated to be radiocessiant by the pathologist was reachly destroyed by proper by the parameters was reality occurring by proper firstillation. He states that in expressing an opinion treatment are water that in experience an opening regarding radiosensitivity which the surgeon may regarding randocrimetrity which the surgeon may follow in his decisions with regard to treatment the season in me occurson with regard to treatment the pathologist assumes a great responsibility. As the microscopic structure of a tumor is only one of a microscopic structure or a timor is only one or a group of factors indicating radioemativity consul-tation between the pathologist and radiotheraptes and importance. In the determination of the radiosensitivity of various leajons the moshpolobors; and improvement in the occumination or the temptracture must be correlated with other factors, intracture must be corression was other incrors, in-cluding the physiological, pathological, and chincal clusters of the problem. A knowledge of the life history of the tumor is necessary for the determina matory of the tumor as neurosary for the octomina thou of redocementarity. Amortous matances indi-tion of redocementarity. Amortous matances indi-cate that the purely histological factors alone are basequate to indicate or explain the response of

The choice between surgical and irradiation treat ment of given tumor is often difficult. The prinneed to given remove is often concern the per-cipal factors influencing the decision are operability and radiosensitivity. The value of various clinical

and radiosensitivity. The value of various cumear findings as induces of operability is the subject of kie differences of opinion. The determination of so concretes or openion are continuous and the radiosenativity of a given timor more be based the the reasonatority or a given turned must be used to calcing appearance, pathological data, and the findings of experimental investigations. A radiosensitive tumor is defined as neoplasm that can sensors competely destroyed by correct irradation withont permanent damage to the autounding normal our permanent manage to the surrounting memory structures. Its eradication can be accomplished by selective tradiation or by counte irradiation. Se sective traduction sterlines the cancer cells without sective arisances sterilizes are cancer term without cannot service administration and control services. causing actions using to adjoining timers, out is possible only hen the difference between the radiopossense only near the cancer cells and that of the sur rounding sormal cells is considerable. Most tumors foliating notions can be commerciated assess connecting all timest this requirement. Nevertheless, the

radiosensitivity of tumors as the underlying prin copie of radmin therapy and differentiates the action of radmin and X-rays from each methods as eacher chor or rammin increasy sum concrements are serious coagulation (agrile irradiation deffers from seleccongulation. Causing management causes now according to that it not only destroys the tamore but also actionally failures the surrounding accounts to the control of the mal tissue. It is principle only to radorestuse famore that are not too extensive. As extrasive injury to adjacent normal structures results in radio rectorist it is the sim of radiotherapy to produce necroms, it is the sum or recoverably to prome complete stembration—ithout radionecross. Even as of the opinion that rachosensitivity is determined more by the intrinsic property of the cells of ones more by the minima property or the cent or organ of the tumor than by any other factor. America or the tunar man by any other nation between the this theory extrinsic factors are of seconds) importance. General cooling of the theory factors in tadocranistance whereas testing seems to increase

Most carmometa arraing from the epidemoid structures of the skin and mucous negativatenamely the skim, lips, oral cavity toogre, toosis, namer, he sam ups, our carry courses as sames, herrar, pharrar, cervur, and vapos—ar radosensitive. On the other hand, admostration mata, melanomata, ostrogeme serconata, and fiber sarcomata are radioresistant and cardisomata of the presst occupy an intermediate position. Of the epidermoid curemomata, the adult hornfring spamoon form as more rathoresistant than the tran

tional form L) upbe-epithelioms is highly rada-The anthor emphasizes that radioacoultivity does not mean curability and radioreststance does not out mean curabulty and randomnanan out am imply incurability. Intense irradiation may destry

resistant lesson adequated and cause assect leatons to disappear dramatically but may be fol lowed by prompt recurrence or the formation of distant metastates. It is emphasized also that the complication of metastases should not be considered ta connection with radiosensativity Papallary is mone are rathogenative though their knowledges structure may indicate resistance Instances silm training this perscapie re cried. Superficial paperers adenoma or low-grade adenoma melegnom of the body of the uteros can be eradicated by intraotting and external radium therapy. The theraper per test—namely the response of the tensor to trradiction remarks the most accurate guide to the

radiosemetranty of the neoplesm The cetatanding successful results from irradatoo therapy have been obtained in cases of ep dermoid leasons of the akin and nucous memberate Ande from radiosensitreity, success in the treatment depends upon the extent of the drame and the cer rectness of the irradiation. When the radiotherapet tismpts t treat lesions which are amenable to surgery he accepts grave responsibility and most

not lethal in a quantity of 33x10-8 mgm until the tissue had passed through twenty-nine subcultures. This fact is of importance as it shows that with smaller quantities a longer time is required to bring about the lethal effect. By comparison with exposures of 2x10-8 mgm for nine days as compared with 300 mgm for six hours it was found that the lethal action of the radium is much greater when all three rays are used in contact with the tissue than when the tissue is exposed only to the gamma rays.

A James Larkin. M D

McCov, H A Necrosis Following Radium Treatment A Preliminary Report Med J Australia, 1934, 2 14

The investigation reported was based on the records of the Radium Clinic of the Adelaide Hospital, Adelaide, Australia

McCoy states that important contributing factors in the development of necrosis following radium treatment are unsuitable filtration and concentration of the radium. In the cases reviewed, unscreened surface applications of radium were frequently employed in the treatment of lesions of a type which subsequently have been treated by interstitial or distance methods. Monel metal or steel needles were buried in cases in which, today, only platinum needles are employed. McCov reports illustrative cases of unsuitable filtration and concentration. He states that in cases of large tumors adjacent to, or involving bone or cartilage the development of necrosis is inevitable because of the large dose necessary for treatment of the tumor

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the primary lesion in cases of buccal carcinoma may be responsible for unfavorable results. In several of the cases reviewed active syphilis was found with necrosis following radium treatment However. a positive Wassermann reaction was not invariably associated with delay of healing or necrosis In the case of a patient suffering from active and extensive pulmonary tuberculosis the routine treatment of a small epithelioma of the lip was followed by necrosis and continued growth of the tumor In several cases of epithelioma of the back of the hand necrosis followed treatment with embedded radium needles screened by 0 5 mm of platinum. It was later found that surface treatment with the use of the same needles and with moulds yielded much better re-Similarly, interstitial treatment of lesions near the nose and car was improved by the use of moulds In a small series of cases the interstitial treatment of an epithelioma of the neck was followed by delayed healing. The fibrous character of the subcutaneous tissues in this area seems to have been the underlying cause. Illustrative cases are cited

In conclusion the author says that the minimum filtration in the treatment of squamous-cell epithelioma should be 0.5 mm. of platinum. If the lesion is adjacent to, or involves bone, i o mm of platinum should be used when interstitial treatment is employed. When bone or cartilage is involved, surface technique with the use of moulds has advantages over the interstitial method. An attempt should be made to eliminate infection before radium treatment is undertaken. Syphilis should be treated before and during radium treatment. In certain lesions, particularly those involving bone, necrosis is inevitable it radium treatment is to be effective in destroying the neoplasm.

A. JAMES LAREIN, M.D.

The effect of pervious irredation on the redesentiferment of a tumor may be practically rederivery great, according to the thoroughness with which the tumor was treated and the number of times the courses of treatment were repeated. A decrease in reddensealthrense from pervious irradiation is probably the result of the gradual economic profileration of connective times which follows the destruction of malignant cells (and, if the dose has been sufficient, of some of the connective times cells themselves) as well as the increasing inhibition of mitted archiving of the multipant ordis from peparind tiredation and a decrease in the blood apply from control times.

Another factor is the time factor of irradiation By this is meant the time over which given done or course of treatment is spread. This depends on whether the dose or course of treatment is given at a single sitting, whether the total dose or course of treatment is divided into large fractions given in a number of sittings within a small number of days (from three to seven) or whether the dose or course. of treatment is divided into small fractions given in a lane aumber of days (from seven to thirty-five) When the total dose is given in one atting or in from three to seven sittings on successive days there is little difference in the effect, but when the same dose is divided, as for example, into twenty-one fractions given on an many successive days, the effect on the secoplasm is much less and to produce the same effect. the total doss must be much larger. However with the exception of secondary infection (separa) all these factors combined are less important than the natural radioescentiveness of the varieties of cells

In conclesson the ther says that the practical value of the classification of ierones given in this article will be doubted only by those who are not tanillar with the natural radiosometrieses of different kinds of normal cells and their nonplantic destructives. The importance of such knowledge is conceiled to be greatest with reference to the radio-small remain feature with reference to the radio-small remain remains of such nonplants is often sufficient to the cells of the sufficient to the cells of the sufficient returned and with adoptate experience, I sake as absolute selection to This applies also to some of the tumor. Suches as moderatory radiosensitive

### McIntosh, H. G. Changes in the Lange and Pleura Following Reentjan Treatment of General fishers Breast by the Prolonged Fractional Mathod. Rehelecy, 234, 3 338

Recognition of pleuropalmenta following resets generate the therast for cancer of the brant and altertherase of the thorast for cancer of the brant and introduceron multiparances in all importance because of the morbadity and possible morbidity resulting from this conductor and because of the difficulty of differentiating between translation of the contraction of the contraction of the contraction of the materials are contemplated in the plant of the contraction of the materials in contemplated in the contemplated in the

The author reports four cease showing waying degrees of pleuropulmodula following threads in degree of pleuropulmodula following threads and green extended to the pleuropulmodula of the absorant particular of age and artistic sound that the absorant particular of age and artistic sound the sound particular of age and artistic sound the sound particular of the sound particular of the sound particular of age and artistic sound particular of the sound particula

While the author gree with Desjardes, Grouc-Christia, Meritt, Coe, and ether that the effect is quantizative be believes that in all unse reports because the possible inflaemence of age and artefasciencis should be considered, and that the jettication of this risk as regards primary mortification internality and the hexard of internative diseases are valuescules franchized horge artered School and

### RADION

Flinn, F. B., Victor J., Brillanau, N. and Mac Denald, D.: The Action of Radorn on Those Cultures. Am J. Concer., 834, 23, 257.

The object of the study reported was to determine whether or not rado-active materials have a west stimulating action or enhytotic times is now Radio-active sain taken into the body are ƙardy deposited in the abdron and gradually cases the destruction of home cells.

The experimental work is described in death and special intention to the amounts of radam under of the stechnique of the exposure should be stechnique of the exposure should be a sufficient with the stechnique of the exposure should be a sufficient from the brant and excitations from the brant and experiments and should be sufficient to the sufficient surface of the sufficient surface where the sufficient surface where the sufficient surface surface

grams.

Metabolic sindies relative t the expension sumption were maded in the case of hardbard-secrecytes, and home marrow. From the way of the control of the three series in an expension of the way that the control of the control

In conclusion the nutbers seats that the experient heartists of pidels are evidence of direct seasons about the pidels are evidence of the consistency by the amounts of radium to which the characterists around the convert they showed that irraducted calitares that but recover from the band irraducted calitares and the control california. This was ordened by their inshally to withstand temporate changes and differences in fewliphsams. Radium was

not lethal in a quantity of 33x10---- mgm until the tissue had passed through twenty nine sub-cultures. This fact is of importance as it shows that with smaller quantities a longer time is required to bring about the lethal effect. By comparison with exposures of 2x10--- mgm for nine days as compared with 300 mgm for six hours it was found that the lethal action of the radium is much greater when all three rays are used in contact with the tissue than when the tissue is exposed only to the gramma rays.

\[ \text{Lues Lakely}, \text{MD} \]

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A James I arki, MD

## MISCELLANEOUS

## CLINICAL ENTITIES -GENERAL PHYSIO-LOGICAL COMPITIONS

## Symmers. D 934. 25 ,

Status Lympheticus. Am J Sarg

The author defines tatus lymphaticus as combination of hereditary constitutional anomalies, smood apicy are certain becaliauties of conglais among warm are ceream permanents of the thymns at an age when involution of the thymns is be expected, hyperplans of the lymphold cells is the spices, intestine, and classifiere, changes in is the speed, intentine, and energhest, changes in the distribution of her hypophasa of the vascular system, developmental deficiences in the gentalia, system, neveropenental consensus in the systems, and incidentally vinceral defects of uncertain oc Carrence and irregular distribution

Although status lymphaticus is compatible a th removed waster sympassics to compare to compare to complete sudden death may result from anaphylana song one senseth treatment may result to an ample of the hamboog transe or from the about success and trace of a sypposiatic cerebral vessel following an increase in sympaosid tisene or from the spontaneous inputer of a the blood pressure. The lymphoid matability seems too broad because the threshold of resistance t infection to some the possible t recognize status lymphat icus during life from is clinical aspects. In the male

these include a delicate texture of the skin, proportioned graceful body female databation of proportioned greening foury science distributions of the public barra scantings of the facual and sullary nd hypoplana of the penns. In the female, the graceful characteristics of the bodily configuration pacture transactions or the bodiny communications are accordingly of 4,000 at opace, performed it the Bellevue Hospital, New York, status lymphaticus as found in \$49 (6 per cent) It was discovered

6 times mor often in males than in females Of 8 cases of all developed status l) mphaticus or o cases or an overcapion status sympanatures studed, the thymes was hyperplastic in all, the forms are higher affected in 50 per cent, and syperplastic lymphoid follicles are found in the appearance of superant countries are mount on the interstined tract and sphere in 85 per cent. The lamby socies spowed ampar phospheric anty a structure care absert in so her cent are structured and special in special in so her cent are structured and special in special in special in special in s Output moure smower manual hyperpasses with a moresse in the sees od number of the germunal follocies. In cases in which sudden death occurred tomers in cases in which sometimes occasioned these nodes showed necrotic changes characterized by change in the shape of the cells and the dis charge of nuclea dust into the intercellular spaces Germinal follicles are replaced by whort his collecamong which are large polyhedral cells resembling degenerated large hamphocytes Symmers, these che gra indicat that sudden death in status is implementa in related a an anaphytactic reaction caused by the audden release of medeo protects formed as the result of the destruction of

Cerebral hermourhage is not uncommon in young cereural memorinage is not uncommon in young non syphilitic subjects of status is implantion. It is non sypantuse soopers or sessua () repeatable in a due to the rupture of hypoplastic cerebral arteries occurring aboutsucoss; or cameq by abbarany one in one inhome or inhomesia contract among one in one inhomes or inhomesial contract around the con occurring spontaneous or causes by appareum trivial traums, physical strain or intense emits cerema timoma, pulyacan actain, or interest enter ment. Although sadden deaths in status ly implation have been ascribed to pressure of the entired thymns on the traches, anatomical systems of traches] compression or sufficiation have sever bees

observed fler death t the Bellevis Hopatal Attention is called to the frequency of states Attenuou is cased to use reduced or scanning drug addicts, criminals, colleptics, and the house its occurrence in association lik competitable hoster and in persons who are emotionally metable as common Apparently the bereintary anatomical as common apparently the neterinary annuous addededs of persons with status lymphaticus reader orierts or persons with status sympastics steam them more succeptible than normal individuals to

the infoemes precipitating exophthsistic guiter The anatomical agas and symptoms of chierons suggest that in girls with states lymphaters the form of anismis is incidental. The author calls Hention ( the great frequency of status ) upbet reas in fatal cases of scute infections ducases such

as diphtheria and epidemic meniagriis. In many cases of recurrent attacks of appendicits of an apparently mild type microscopic examination as an apparency must type noncompose communication of the renoved persons has revealed appendix of the gammal folicies, acknown, ad eyes oblites on the appendix in the absence of sign of an

inflammator) expedation HACREX METTER, MD Critchley M Some Aspects of Pain. Brd M J øм'

Attention is called to the limited also of the various blochemical and metabolic changes that have t times been regarded as the effects of pain Many of the data obtained by animal experiments tion are not applicable to the study of pain as process of human mental activity Pain is personal sensory experience its existence in the individual depends on his word alone. As obviets difference exists in the pain reaction of individe

an pparently identical stimules Even is the same individual the response values under different conditions due to such factors as titration or as sociated rage, fear antiety or despair. The perchological concomitants of pain are manifold Severe, acute pain usually dominates the lettin's sensorass. causing inability to concentrate upon physical er mental activities. When states of acrete pain are prolonged, marked psychological adjustments are to be anticipated Secondary sensations, scort commonly in terms of color, may occur

The discussion includes the problem of the effect of one pain upon nother the sessation of mix from pain, pain as a pleasure sensation, and the relation of pain to sexual stimulation

WALTER H NADLER, M D

Blalock, A Shock Further Studies with Particular Reference to the Effects of Hæmorrhage Arch Surg, 1934, 29 837

In experiments on dogs the induction of profound an extensia for an extended time by the administration of sodium barbital or ether was associated with definite alterations in the tissues of the body. In some instances hamorrhage into the lumen of the intestinal tract occurred. The alterations were slightly more marked when ether was used than when sodium barbital was used.

The alterations in the tissues found following death from hæmorrhage after the use of sodium barbital, ether, or procaine hydrochloride in the spinal canal for the induction of anesthesia were only slightly less marked than those found following death from trauma when the same anisathetics were used. However, the blood pressure remained at a low level for a longer time in the experiments in

which trauma was produced

In a comparison of the results of experiments performed under sodium barbital, ether, or spinal anæsthesia, in some of which death was caused by hæmorrhage and in others by trauma, it was found that the quantity of fluid in the injured extremity in the experiments in which trauma was produced was approximately equal to the amount of blood withdrawn in the experiments carried out to determine the effects of hæmorrhage

Maintenance of the mean arterial pressure at approximately 70 mm for three hours by the injection of acetylcholine or by increasing the intrapericardial pressure was associated with marked alterations in many of the tissues of the body. The mucous membrane of the intestinal tract became red and hæmorrhage occurred into the lumen of the tract.

Removal of blood in small amounts at frequent intervals from animals under local anæsthesia in such a manner that the blood pressure was at a low level for as long as possible preceding death was associated with capillary congestion and dilatation in most of the organs and hæmorrhage and necrosis of the cells in some of them. Hæmorrhage into the lumen of the intestinal tract was observed in most instances.

Maintenance of the blood pressure at a low level for several hours prior to death by combined removal of blood and introduction of blood was associated with marked alteration in the tissues. The changes appeared to vary directly with the length of time the blood pressure remained depressed. The animal's own blood was used for the replacement and coagulation was prevented by defibrinating the blood or placing it in a solution of sodium citrate or heparin. An increase in the concentration of the red blood cells occurred in more than half of the experiments

In other experiments in which local anæsthesia was used the blood pressure was reduced by hæmorrhage

and was kept at a fairly constant low level for several hours by removing additional blood or by introducing blood by the direct method from a suitable donor. Death occurred in all of the experiments despite the fact that slightly more blood was introduced than was removed. The gross and microscopic changes in the tissues were marked. Tree blood was present in the lumen of the intestinal tract. An increase in the concentration of the red blood cells occurred in all of the experiments.

The average quantity of blood remaining in the pleural and peritoneal cavities following removal of the organs was approximately the same in the experiments in which death was produced by hæmorrhage and in those in which death was caused by trauma to

an extremity

With regard to the differentiation of homorrhage and traumatic shock the following statements are frequently made

r Hemorrhage is associated with a decrease in the concentration of the red blood cells, while shock is associated with an increase

2 Death following homorrhage is associated with an anomic appearance of the tissues, while after death following shock the tissues show homorrhage and congestion

3 The low blood pressure resulting from hæmorrhage is promptly corrected by blood transfusion, while shock is not greatly benefited by transfusion

The author's experiments show that shock associated with an increase in the concentration of the red blood cells, capillary congestion, hæmorrhage in the tissues, and a negative response to the transfusion of blood can be produced by hæmorrhage alone

SAMUEL KAHN, M D

Dévé, F Intermediate and Transitional Pathological Forms Between Hydatid Echinococcus and Alveolar Echinococcus (Bavaro-Tyrolienne) in Man Australian & New Zealand J Surg, 1934, 4 99

The author states that the exact nature of echinococcus alveolaris is not known. Dew and others claim that all hydatid lesions are the same and that polymorphism is due to parasitic variations. Posselt, on the other hand, emphasizes the parasitic specificity of echinococcus alveolaris. The zoological and histological arguments have not been substantiated and animal experimentation has failed to produce the alveolar process. In the classical alveolar hydatid disease the findings of pathological examination are the same whether the liver, lung, brain, or bone is involved, and the alveolar characteristics are retained whether metastasis occurs by lymphatic paths or the blood stream

The author discusses the pathological findings in three cases which he claims disprove the theory of a parasitic duality of the echinococcus. The first was a case reported by Orth and Schmeta in which, in addition to a hydatid cyst of the spleen as large as a man's head, numerous smaller cysts such as occur in multilocular echinococcus cysts were found

Deve believes that this case showed a definite metamorphosis from the hydatid echinococcus lat the alveolar form. The second case was one reported by Welchselbaum, Kolisto, and Posselt to which a primary coincident development of alveolar and cytic hydatid echinometrus occurred in the heart without involvement of other organs. The author ciains that on re-examination be found as latious minglise of the hydrid and quast-shoolar lesions which renders duality of the lesions unbiely lie believes they were a series of transitional forms The third case was one reported by Dew in which the il er showed among the fundamental abreolar letions annually large cystic cavities filled with hydatid bouid liers an alveolar echinococcus gave rise to a quasi-hydatid execular formation. Apart from the special example of bone echlaococcus. transitional cases of this blod have been care, but the other believes they will be recognized more frequently when all cases are studied more carefully

trequently when all clases are stoned more carefully. De're concludes that these three cases have firmly established the entitioned of transitional forms be there by third enhipsocrous and alreolar echisococcus in man, and confirm the theory of the para sitle underly of the enhipsococcus and the para sitle underly of the enhipsococcus.

CLARINGS C REED, 31 D

Walkren, A. The Value of Calmette Vaccination in the Prevention of Tuberculesis in Child-hood. J Au M Au 234, 43 541.

The author presents the results achieved up to the preent time in as experimental antitubercolous vaccasation of human betags. The vaccine he said is composed of an originally virialent strain of bovine tuberche becilles which, by certain methods of cultivation, has been readered very neutric fruient.

With regard to the neity of such vaccuation be states that is a carried and entuch attesty of the synthalse literature be found that, up to the present time, not one of the million children who has a been vaccinated have suffered any renders harm from a carriedity respect and carriedly expected and carriedly as the first of the proposed vaccine Of 200 children vaccinated b. Walteren humselt, only a have deed. One deed of specime memogiate and the other of acute premionia. In senther was nav reldence of the therealson found it is topic.

The results of the prophs lattic acclination interduced by the form 10.72 is always as a failure. In the 15 few year periods immediately preceding 19.7 the abouter number of details from tabertalosis per 1,000 children as Gothenburg was 19.14 and 19.14

Il lights concludes that the course of the more tainty curs constitutes definite proof that the principles he has followed have been efficacious in the purely practical application of antituberculous was the as a prophylactic measure against tubercular in the children of the community

HEARTH F TRUNSTON, AT

Dennally H. H., and Kirshen, M. M.: A Study of Vaccination in 500 Newtonn Infants. J. J.

M Are 1934, 103 269
Smallpox vaccination of newborn infacts is a sale procedure. Its complications are sephylake its information on complete and marking in the complete its information on complete and marking in the complete in the comple

sale procedure—Its complications are negligible, he industrice on growth and netrition is insignificable, and it is seldent followed by ferror. The all in reaction tends to be skight in extent and

The akin restrion tends to be slight in extent, and when Leaks a method is used leaves behash only small superficial scars. Adjustment between the potency of the views and the locculation technique stay leaver encounted results from the first variantion in at least to per cent of the cases.

Lacrination of sendors talls to his been practized successfully since Jenner's time. The hybresistance of acribons infants to secureful resistmay be due to the resistance of growing, young theores, but possibly also to other factors.

Acthe acquired immunity may devise promptly and may penish will seen a pair probably larger. In the cases of foundings in Runish which were reactioned aboutly after that, observations trationed wroll the subjects were 1 cuty-fees and treated a very alight morbidary in the 15 penish penishes occurring in the period between 1859 and 1859 and 1859.

In conclusion the authors stat that varianties at hirth is a practicable nearm of lacrawing potenties against smallport in a large group of sorth in which it is most needed when the group fellow procee to do lithout this protection for stad and for the community until it is forced to obtain it is shood are.

Pinhier, G. E., and leating J. H.: The Treatment of Epithelioms of the Shim. Reliably: 154-1.54

Cancer never begins in normal three Cancer of the skin nearly always develops cry slowly and in advocaly the difference in the condition between are month and the next being slight Because of the fact the patient has a f lie sense of security Moles, particularly those of the pigmented ranet) its occur singly or in large numbers. It is probably true that not more than I in 1,000 becomes malirius! If a mole is not treated skillfully her the charge from the benigs to the mallenant condition arrive. extensive metastanes are birdy to result Therefor it is best to remove all moles, especially plane of a precautionary measure. It is seruntly thoics. also to remove all warts, particularly sen is warts, and say absormal crests, becores, or chrode skers. These can be eradicated under local aurathesis st one sitting by deserction or electrocuse. Litters

large stars often derriop splitcher at 1 de usually beg as staal fastores or ern or then gradually spread. This type of explicit are is squamous-celled. As note removal of the entir scar by electrothermic dissection is advisable Moles, warts, scars, and epitheliomata in scars are usually not treated successfully by irradiation alone, and are best destroyed by electrocoagulation

Epitheliomata of the skin may occur as single or multiple lesions, but are usually single. They develop as a rule on the exposed parts of the body Not all epitheliomata of the skin are of the basal celled type Fifteen per cent are of the squamous celled variety Since squamous celled carcinoma may give rise to metastases, not only the local lesion, but also the associated lymphatics must be treated The treatment of epithelioma of the skin depends in great part on the size, depth, duration, and location of the lesion Between 70 and 90 per cent of epitheliomata of the skin can be cured by irradiation either with radium or the X-rays This is the method of choice in cases in which scarring is objectionable scarring is not objectionable, the area around the lesion should be electrodesiccated, the bed of the lesion then destroyed completely, and this treatment followed by a full erythema dose of X-rays or surface applications of radium. If, on biopsy, the carcinoma is found to be squamous celled, the neighborng lymphatic glands should be treated with filtered irradiation and high voltage X-1ays

In Bowen's disease, the patient may have as many as 100 epitheliomata, varying in size from that of a pinhead to that of a fist. Under general anaesthesia most of the lesions may be removed at one sitting

Basal celled epitheliomata are of 2 types typical lesion of one type seems to develop as a papilloma which may be of varying size In lesions of the other type there is very little overgrowth of tissue, but ulceration occurs, producing the rodent ulcer When treated early, the rodent ulcer can be easily cured by radium or X-ray irradiation or electrocoagulation When it has extended into the muscle or deeper, its treatment is very difficult. Occasionally the advanced lesions can be arrested by irradiation, but recurrences may develop. As a rule it is best to destroy the deep lesion completely by Even if bone is involved, the electrocoagulation bone area should be destroyed and then the de stroyed area should be resected down to healthy bone or the destroyed bone allowed to sequestrate

In the treatment of epitheliomata of the skin it is usually necessary to give a total of from 4 to 10 erythema doses. Most failures are due to insufficient treatment. The incidence of recurrence is increased when soft rays are employed. Samuel Kahn, M.D.

Bucalossi, P A Histological and Critical Study of Myxomata and Myxomatold Tumors (Mixoma e tumon mixomatoldi Studio istologico e critico) Clin chir, 1934, 10 831

The author reports two cases of myxoma, in one of which the tumor occurred on the antero-interior surface of the thigh of a man sixty years of age and in the other on the forearm of a woman fifty-five years of age. In discussing the histological findings in these cases in detail he reviews the whole question

of the nature of my romata and the differences between these tumors and other neoplasms which have undergone myxomatous degeneration. He states that myxomata may develop in a mucous tissue which is completely differentiated or in one which is not yet completely differentiated Of most importance from the practical point of view is the fact that while the morphological appearance of the two varieties of tumor is the same, their clinical course may be very different Those that develop from completely differentiated tissue are benign, while those that develop from incompletely differentiated tissue may become malignant. As it is impossible to differentiate between them histologically, the only safe course is to consider all myxomatous neoplasms potentially malignant and operate upon them radically AUDREY GOSS MORGAN, M D

Lumsden, T, Macrae, T, F, and Skipper, E. The Direct Demonstration of Anti-Cancer Bodies in the Serum of Animals Immune to a Homologous Tumor. J. Path. & Bacteriol., 1934, 39-595

In a series of articles published by one of the authors (Lumsden) during the past ten years, strong and cumulative experimental evidence of the existence of specific anti-cancer bodies was presented Although this evidence has been widely accepted as adequate, a few observers have remained unconvinced because the presence of the anti-cancer bodies had never been demonstrated in an animal immune to a homologous tumor (e.g., a rat immune to Jensen's rat sarcoma) or in the blood of an animal in which a tumor was regressing. This difficulty has been surmounted as the presence of anti-malignantcell bodies can now be shown directly and conclusively by application of the serum of rats immune to Jensen's rat sarcoma to tissue cultures of Jensen rat sarcoma cells under the conditions described by the authors In the authors' opinion the essential factor in immunity is the power to produce antibodies rather than the actual presence of antibodies

The antibodies are formed when the immune animal has need of them as, for example, after an implantation of Jensen rat sarcoma. An immune rat which has not been injected with Jensen rat sar coma for a period of many weeks has only a very low titre of antibodies In every one of more than forty rats immunized against Jensen rat sarcoma a high titre of anti cancer bodies was demonstrable in the serum within one week after the last immunizing inoculation Anti-cancer bodies are not demonstrable in the sera of normal rats or of rats bearing a progressively growing tumor Rats in which a tumor is regressing develop pari passu anti cancer bodies in their sera These anti-cancer bodies have an affinity for cancer cells alone and are quite harmless to nomal tissues They are toxic to malignant cells of any variety, not only to those used as antigen The ability to produce the anti cancer bodies when they are required is an essential factor in acquired, and probably also in natural, tumor immunity

JOSEPH K NARAT, M.D.

### Gandolfo, A.: Rollo s Test in Cancer: Statistical Results of 11,000 Cases. Am J Concer 1014. 161

In rost, Roffo, in sperimentias on sera of normal and cancerous rate, discovered that if 5 drops of 1 per cent neutral red in dutilled water are added to t can al least clear secure the secure will become red if it was obtained from a cancerous asimal and vellowish if it was obtained from a normal animal

At the Comment of the Latin-American Confederation for the Study of Cancer which was held in Montevideo in 1930, the results of s,841 tests made on 11 000 patients at the Institute of Experimental Modiciae at Busnes Aures were reported.

The percentages of positive results obtained by various investigators are summarized by Gandolfo as follows

	Castyr	Orbes
Rofe	£1 9	
Catwortano	70	
Cxppgman Astralds	•	
	90	
Paker and Excess	63.5	
Araya and Neuman	00 92 63 8 78 60	
Carrages	78	
Cading and Akkerstess	78	,
Thomas	δο	6
	73	
Benc	49	20 20
Rajc	o eq	20
Acredo	7	9 .
Rodo and Piler	64.4	
Historica	30	77
Ruffo and Correa	£3	
Сагиня	65.4	5
Garcia Awia	-	-
Moreth and Brum	8to	
Rose Cros Storcs	77 0 - 4 2 2 3 7 4 8 mg	24 5
Botta	63.6	4

Of the 2 ,000 tests reviewed by the author, 4,18 were made in cases of cancer and 6,7 8 in cases of other duestes. The cases of cancer are classified according to the duration of the discuss, the type of the reaction (whether it was strongly positive positive weakly positive, or negative) and the locurion of the capter

In the cases of non-cancerous dusture the incidence of positive reactions ranged from 5 to 5 per cent and sveraged 6.37 per cent

I the cases of skin cancer in which the results of the test are poorest, the reaction was positive in

at 41 per cent of 1 tests Of Bio cases of cancer of the mouth, the result was positive in 52 per cent

Of 675 cases of cancer of the gustro-intestinal tract, I was positive in 6 6 per cent

Of age cases of cancer of the resperatory tract, it was positive in 75 per cent

Of g cues of cancer of the liver it was positive In E4 so per cent, and of 13 cases of cascer of the pancress, I was possive in \$46 per cent in all cases with jamedice t as negative

Of 477 cases of cancer of the breast, the reaction was positive in 50 55 per cent. In the cases of 45 patients operated upon in other hospitals and ther ing no recurrence, I was negative

In 49 cases of cascer of the male gootto-crisers tract-cases of cancer of the bladder prostate, is ney and testicle-the tecidence of postne results ranged from 60 to 80 per cent, but in the case of cancer of the peals it was 44 per cent

Positive results were obtained in 65 st per cent of the cases of uterine cancer 78 ou per cent of those of overlan cancer 57 14 per cret of those of expect of the vagina, and so 6s per cent of those of causeer of the volva.

In cases of cascer at other sites, particularly cases of laternal acoplesms, the percentage of poutre

results was bigh

Rollo's test is not specific, but is of value as an auxiliary method for the diagnosis of causes.

Although peretive results do not exclude the presence of cancer positive result should faden continued investigation to discover the growth. since in 6.7 8 tests the uncidence of Julie positive results was only \$ 17 per cent.

Roll 's test has visided a high percentage of postive results in tases of cancer of the nterus, over; bladder stomach, Intestines, liver pancress, brags and mediasticum and in cases of outcommunications, all of which generally present diagnostic difficulties In the conditions in which it gives the lo set per centage of positive results biomy is usually possible WHITEM E SEICELETON, M.D.

Enderion Indications for Early Operation (User the Indication ser Frankoperation) School and Webniche 934.

In many different surgical procedures the best functional results with minimal operative despir are obtained if the operation is performed early be the bests of his extensive experience the author lays does the roles which he has found of value

The indication for early operation in appraisable is generally recognized. However an exact desposes as required because in cases of recent adaeral after more, gonococcal perstantis, typhus, rensi and ureteral stones, acrionavois, and pacamosis, spart toon would not only be meless but might be barreded The operation should be limited to cases in like the suspector of appendicitis or of an abdominal comb tion requiring surgery is sufficiently partified

Localised shareners should be opened only when the condition becomes progressively orm, the temperature continues to rise, the pain on present becomes more severe and the isococytonic increase The appendix should be removed only when it is reactly accessible

In posturococcus pontourile the demonstration of the organism in the blood or the veguel accretion supports the diagnosis. Early operation is not to be recommended, but the abscesses should be opened and preumococcus serum should be administered later

In acute pancreatic necrosis early operation does not appear to influence the process materially

In paranephritic suppuration there is no need to

hurry operation

Gall-stone disease should not be compared to inflammations about the cæcum. In the former condition the mortality is essentially higher and operation does not always result in definite cure. Enderlen recognizes the following indications for operation on the gall bladder (1) severe empyema, (2) hydrops (because of the danger of the development of empyema), (3) icterus (after two or at least three weeks, because of the danger of cholæmia), (4) social indications, and (5) more remotely, the danger of the development of carcinoma

In ulcer of the stomach and duodenum operation is indicated early only in case of perforation, otherwise it is indicated only after one or two well conducted ulcer treatments have failed. The older the case (ulcera callosa), the better are the results of

extensive resection

In empyema, operation should always be preceded by a number of paracenteses Suction by the Perthes method accelerates the expansion of the lungs

In cases of abscess of the lungs, the focus remains limited for several weeks and operation may be

delayed for six weeks without anxiety

In cases of enlargement of the prostate early operation is not urgent. Only a continuous catheter life and residual urine constitute indications for intervention, and these only when supplemented by determinations of the renal function, residual nitrogen, and indican

In Basedow's disease operation may be done when a two-months' course of internal treatment or of irradiation treatment (which in itself is not without danger) has failed to cause noteworthy improvement

In cases of epidural and subdural hæmatoma,

early operation is life saving

Umbilical herma is an urgent indication for early operation, as is also incarcerated, congenital inguinal herma

The imperfectly descended testicle may be left without operation until the minth year of life

Early operation is not recommended for phimosis, epispadias, hypospadias, or exstrophy of the bladder

Harelip should be operated upon as soon as the nutrition of the child permits it, and cleft palate should be corrected surgically at the end of the second or third year of life

Wry neck should not be operated upon before the

end of the second year of life

Operations for syndactyly should be delayed until the sixth year of life

(A Brunner) John W Brennan, M D

Goyanes J Air and Fat Emboli and Their Surgical Importance (Sobre las embolias de aire y grasa y su importanca q ururgica) Actas Soc de cirug de Madrid, 1934 3 179

Air embolism may occur in any surgical operation It is most common in the "dangerous zones" in the

lower part of the neck where bubbles may enter the jugular vein, especially if the vessels are displaced by large tumors. Caisson disease is an example of general air embolism. In attempted abortion and placenta prævia, air may enter the placental vessels. The use of hydrogen peroxide in wounds may cause air embolism.

The climical picture of air embolism due to only a small amount of air is the sudden development of asphyxia, palpitation, stabbing pain in the chest, and dizziness. Cerebral symptoms are loss of consciousness, loss of vision, and contractions and

pareses of the muscles

Air cannot enter the veins unless the pressure in the veins is less than that of the atmosphere. On forced inspiration pressure is lowered in the thorax, the blood from the large veins rushes into the heart cavities, and the pressure in the peripheral veins is reduced to less than that of the atmosphere The vessels of the neck are surrounded by aponeurotic fascia which keeps them from collapsing, thereby favoring the entrance of air into these vessels when they are injured The patient's position is important If his head is lowered in injury of the vessels of the neck the negative pressure in the veins becomes positive and hemorrhage occurs instead of the entrance of air into the veins. This has been demonstrated in experiments on animals and is of great value in prophylavis

Death in air embolism is variously explained Kleinschmidt attributes it to a combination of overdistention of the right auricle by air and obliteration

of the capillanes and arterioles of the lung

In addition to general stimulating treatment, direct aspiration of the air from the heart may be tried in grave cases. In cerebral embolism little can be done besides the administration of stimulants to raise the blood pressure with the object of dissolving the air. Other methods of raising the pressure are energetic flexion of the thighs on the pelvis and

ligation of all four limbs

Fat embolism is obstruction of capillaries and small arteries by fat droplets. It generally follows fractures It is best prevented by careful handling of patients with fracture and the avoidance of long transportation of such patients if possible embolism may develop within a few hours or more than seventy-two hours after a fracture In severe cases death is soon caused by blocking of the capillaries of the lungs The symptoms in these cases are a feeling of great oppression in the chest, intense dy spnœa and cyanosis, and, at times, the expectoration of blood. If the patient does not die soon, kidney and brain symptoms develop as the result of the entrance of fat into the capillanes of these When a patient enters the hospital in a condition of stupor following an accident causing fracture a differential diagnosis must be made between shock, concussion of the brain, and fat The blood and urne should be tested embolism for fat and the eye grounds examined In the differentiation of fat embolism from shock and concussion of the brain which come on at once, the free interval in cases of fat embolism is of aid. Fever may occur in fat embolism, but is not characteristic. In animals the temperature generally falls

In the treatment the infrarences injection of admeals may improve the circulation in the polsonoury arteries. The author advises enthermassion of the right anticle and the injection of adressilin into the heart. On the basis of the theory that the fat is carried by the 1 ymphiles, Willias advises opacing of the thoracic duct. The operation is simple, but the lister thosare of the famile is often difficult. From experimental and clinical observations Wegelin has come to the conclusion that the fat is curried by the case of the fractured limbs are considered to the conclusion that the fat is curried by the case of the fractured limbs and difficults attendant to hood of the green up Sacharoff recommends inhalations of carbon disorder.

### SUBCICAL PATHOLOGY AND DIAGNOSIS

Gabrielli, S. The Taksta Ara Resction in Sergical Conditions (La reamos di Taksta-Ara segi annualati di interese charargica) drch Rel di Mr. 234, 38

The author carried out the Takata-Are test on the security of about two patients with various surgicul conditions. In primary or secondary disease of the liver or the extrahepatic bilisty passages, and expecially in measurchymal issions of the liver the reaction was often positive. In the virines irreof circhost it was always positive, rera in his proence of actiest, except when the lexico was of only modernts severity. In patients with dessets of the liver it was always negative in the present of juncific. The author attributes this hast to the parasites in the service of bilary components lead of the property of the property of the present of the reaction of the property of the property in the reaction was positive less often that in lequic chiosases

Operative control and histopathological studes curried out on some of the patients tested led to the view that the positivity of the test is dependent ppon the presence of heratic changes of an later. matory or degenerative nature. Cabelells modeder also that it is related to a chaturbance of the poste civile power of the liver since he observed that is some nationts with hepatic duesse the test showed a pathological result after the administration of a large amount of protein hy mouth. He states that the test is of value in the determination of operative risk, and that the results obtained before operation should be compared with those obtained in the peroperative period. He discusses the results of tests carried out after various operations 1th repart to their prognostic significance and to the admissiontion of drags which act mecalculty on the beer He reports also his findings with regard to the behavior of the reaction as affected by various components Emmer T Labor, M D

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NOTE-THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

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## SURGERY OF THE BONES

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# International Abstract of Surgery

Supplementary to

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# INTERNATIONAL ABSTRACT OF SURGERY

**APRIL**, 1935

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### EYE

Dorrance, G. M., and Loudenslager, P. E. Physiological Considerations in the Treatment of Pulsating Exophthalmos. Am. J. Ophth., 1934, 17, 1999.

From ten cases of pulsating exophthalmos in which studies were made of the retrograde flow from the anastomoses of the external carotid artery down the external carotid, past the bifurcation, and into the internal carotid, the authors draw the following conclusions

r Following ligation of the common carotid artery the internal becomes a branch of the external and the volume flow in the internal is reduced about 50 per cent

2 Almost one half of the recurrent flow in the external carotid artery comes through the superior

thyroid artery

The authors believe that as a general rule it is wise to ligate the common carotid artery alone. This frequently results in cure. If the symptoms persist or recur, the superior thyroid and occipital arteries should be ligated. Later the external trunk may require ligation. Successful results are more frequent if the following physiological facts are borne in mind.

I When the blood volume in the internal carotid artery is reduced slowly there is less likelihood of starting a back-flow from the artery distal to the fistula

2 Any volume of blood which is reaching the brain by this route is proportionately preserved

3 The existence in the bifurcation of the common carotid of a carotid sinus that regulates the circulation to the brain may be so influenced that the heart may be slowed and the blood pressure reduced, any abnormality of the cerebral blood supply being thereby accentuated. Removal of the stimulation to this sinus will result in an increase in the heart rate and blood pressure

Ligation of the internal carotid artery in the presence of an arteriovenous fistula in the cavernous

sinus is contra indicated because it is frequently followed by hemiplegia. It completely cuts off any blood which may be getting past the fistula and into the brain. It creates an area of low resistance at the site of the fistula, and may result in the draining of large quantities of blood from the cerebral channels with consequent cerebral complications. It creates an increased pressure within the carotid sinus, thereby lowering the blood pressure and the pulse

Ligation of the common carotid artery is relatively seldom followed by complications such as hemiplegia. It reduces the blood flow in the internal carotid artery, aids collateral circulation in the brain, permits fractional ligation of the internal carotid, thereby reducing the flow through the fistula between the internal carotid artery and the cavernous sinus without stimulating a reverse flow from the distal segment, and reduces the pressure within the carotid sinus, thereby increasing the blood pressure and heart rate and preventing slowing of the circulation in the cerebral areas

From a study of all phases the authors draw the

following conclusions

r Routine pre operative compression of the carotid vessels and the use of fascial bands or rigid clamps such as those of Matas or Neff may contribute to the incidence of postoperative complications

2 Simultaneous ligation of the internal jugular vein is more apt to be detrimental than helpful

- 3 In the presence of mouth, nose, or throat infection, the operative wound in the neck should be drained
- 4 Anomalies of the circle of Willis are so rarely uncompensated that deficiency of collateral circulation because of them cannot explain all of the cerebral complications which follow ligation of the carotid vessels
- 5 Cerebral accidents following these ligations are due largely to sudden extreme reduction in the blood pressure resulting in stagnation of the blood stream in cerebral areas Leslie L McCox, M D

Jameson, P. C. The Use of Thyroxin in Ophthal ENTERNATIONAL ABSTRACT OF SURGERI Meson, P. L. And Use or AMTONIA IN OPPORTUNISHED AS A Local Agent and Assault. Allows the Assault. Allows the Assault.

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in his own case Browning noted definit Improvement of near Arrow tion pipth to test only infrared to the control of the control A la least to the reading of Jeeger A 4 libout 4 th seas to two reasons or jerger A theory the age of sulfavoration per constitution of the execubettons of presente

Other conditions for which thereads has been employed include terrato-trills, terratific cornect opedity little following the removal of a centract and a postoperative fullily with considerable care tion and much attracts of this I all of the cesses marked imbroamout in amous as optained

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many menancement in any year information as to down and the reason for the effect of thyroun The migh technic content of thyroun probably ico aga notice content or invitoria pracessive acceptata for its penetrative property but sodies along a new magnetible for the improvement obalone is not responsible for the improvement oc-tained as potagoizm todale and giverni, which has been need for many years, does not have the same effect. Acether is sodium by druckle the active agent. ease. Action in maintain available for each against as those used in

the thyrorda preparation do not reduce the tension The symptoms of cumulation are a feeling of and experience of Cumminister are a facility of the spring of the partial state of the or the spring of the partial states, and such a spring of the partial states, and such that the spring of the partial states, and such that the spring of the partial states, and such that the spring of the spr

Friedmand, J. S. Notes on the Albert Theory of Amagazhetic Ophthalma. Am J. Charlet 1914.

The bishopical Procurace of grapulation ophicalists is well known and is compatible with the control of the compatible with the control of th opercusions is were known and is comparison with the theory that the conducton is due to afferty. The

the theory that the condition is one to surery in reaction to cases of symmetric positions to the introduced layerlaser of breat piperar has all of the conditions of the cond intracerms investigated to over parones one on the characteristics of the inflammatory reaction is the c.c. False positive reactions farring been extoe the rame bound terrors sering occurs to conclude that if allows to aveal pigment is reasonable for the lesions of to nace between a technique to the series of symmetric operations, some over more as positive to release the wreal pripared from the mechanisms and make it available for the sheeps reaction. The adultional factor presently for inreaction And sessionary touches the information touches by a profiler

Uver pigment being very losshible and leeble Used pigment being very instance and seems at steeps to describe suit to stee and ineffective. The body should inerview to the steep to and memerine the body shown increase or supplied with this planeau at some other poor. At self-serp situ time pagment at some other pour an tice metards of the help is probably related to the the meaning or one same a promony item in to the first three productive from the first three productive of the state principologies would provide a floor wider to the first three principal princip distributed source of piercent. Friedmank has treated three cases of sympathetic oppitations and nitrations light with interacting tempts that the course cases or stemperature characteristics for the course of t

Thyperon P Richards Diagnosis of Conjune

The confunctive has a finited normal bacterial fore, the only constant organizati being the carpreceived records and the exhibitococcus after new conferences and comment of sensors notifice new receivers the conferences of sensors notification and the conference of sensors of sensors and the conference of sensors o both of theb are suprophytes. In the presence of conjunctività these organisma are often crowded out by the mixed as to that an almost pure culture of the the solution of the cause of an infection by and of the Gram and Garmes states technique for further identification of the organisms and opens for differentiation of the most constant evaluation for interest sociation as the order research

conjunctival pacters by critize and more many He state that bethymal conjunctivities as second he sealed that accurated tools from the property of the proper adult removal of the sac or restoration of draining acture, removal of the sac or restoration or unassessed as a necessary. The most common cames of the faction are the diplococcus paramorne, hamophiles taction are the department parameter, in landsteen, and streptococcus harmory tiens

in Ternal catarra the constant factors of councer the versat cutains the comment manus or comment for the secretion is of diagnostic importimes. Scribbate from the obbat paint conjunctive times. are of most value

Under the term "inclusion conjunctivitis," Thy geson groups the 2 non-bacterial conjunctival diseases, inclusion blenorrha a and swimming pool conjunctivitis, which are caused by a single virus. He suggests substituting the name "adult inclusion conjunctivitis" for the name "swimming pool conjunctivitis" as the swimming pool no longer plays a major part in the spread of the disease. The majority of cases now seen are the result of direct transfer from inclusion diseases of the genito-unnary tract

It is the inclusion conjunctivitis occurring in adults which is most often confused with trachoma. The examination of expressed follicular contents after Giemsa staining is of diagnostic and. In trachoma the large mononuclear cells predominate, while in all forms of follicular conjunctivitis the small mononuclear cells are the most numerous. In the trachoma follicle the central portion may be expressed easily, whereas in follicular conjunctivitis the follicles are hard and must be torn out it toto.

Actively secreting, so called acute trachoma is of the following 3 types (1) chronic trachoma plus superimposed infections, in which inclusions and free bodies are rare, (2) subacute trachoma plus superimposed infection, in which inclusions and free bodies are more numerous, and (3) subacute trachoma unassociated with pathogenic bacteria, in which inclusions and free bodies are numerous A search for free bodies in chronic trachoma is not recommended as the diagnosis is aided by predominance of large mononuclear cells. The characteristics of inclusion bodies are discussed

In a series of 314 cases the etiological agent was identified in 91 per cent of the acute cases of conjunctivitis, 85 per cent of the subscute cases, and

46 per cent of the chronic cases

In acute conjunctivitis the diagnosis should always be made by the examination of a smear. In the treatment of gonorrhead ophthalmia and conjunctivitis due to the koch Weeks or influenza bacillus the author has found a 0.5 per cent silver nitrate ointment superior to the solution. For conjunctivitis due to the pneumococcus the application of a 1 per cent optochin is advised. Diphtheria antitovin and anti-streptococcus antitoxin, used locally and parenterally, are specific for these types of infection.

Four definite types of chronic conjunctivitis are recognized (1) infection by the diplobacillus of Morax, (2) infection by the staphylococcus pyogenes aureus, (3) conjunctivitis in which cosinophilic cells predominate, and (4) conjunctivitis in which the findings are negative. The first type responds to treatment with zinc sulphate ointment. The use of this ointment should be continued for a month after relief of the symptoms. In the second type of chronic conjunctivitis, treatment may be difficult. For this type the use of silver nitrate ointment and vaccine is suggested. The third type is an indication of vernal catarrh or simple conjunctival allergy. In the fourth type no

laboratory help is available. A sht-lamp examination should be made for superficial punctate keratus.

In cases of trachomy it is important to determine whether the symptoms are due to secondary infection or to the virus. When they are due to secondary infection, silver nitrate is indicated, whereas when they are due to the virus, copper sulphate should be used.

Some of the follicular cases, such as those due to physostigmine and atropin, bacterial toxins, or infections of unl nown origin, are toxic. In children, follicular conjunctivitis is often caused by the diplococcus of Morix, and in susceptible persons it has been known to result from chronic infection by the staphylococcus pyogenes aureus.

In an occasional case of conjunctival folliculosis with secondary infection relief is obtained without disappearance of the follicular hypertrophy. Another type of case presents a granular appearance of the lower lid with blepharitis which simulates folliculosis, but is in reality a papillary hypertrophy, the result of a low grade bacterial infection. It is usually due to the diplococcus of Moray and responds to

treatment with zinc In the discussion of this report, Verhoeff called attention to tuberculous, phlyctenular, Paringud. and herpetic conjunctivitis, squirrel plague, ophthalmia nodosa, conjunctivitis due to insect bites pemphigus, and rosacea conjunctivitis. He stated that the last-named is the most common form of chronic conjunctivitis The diagnosis of swimmingpool conjunctivitis may be aided by the presence of enlargement of the pre auricular glands. Lachry mal conjunctivitis may be caused by streptothrix concretions in the canaliculi Diphtheritic conjunctivitis may be produced by the corenebacterium ulcerans, under which circumstances the antitoxin is useless. In pneumococcic infection such good results are obtained with boric acid and zinc sulphate that the use of optochin is of questionable LOWARD S PLATT, M D

Thygeson, P The Etiology of Inclusion Blenorrhæn Am J Ophth , 1934, 17 1019

Many ophthalmologists have noted the presence of inclusion bodies in various types of conjunctivities. These bodies may or may not be associated with bacteria. Of seventy-seven cases of conjunctivities in the newborn which Thygeson studied, eleven were bacteriologically negative. Ordinary laboratory animals could not be infected with material from the eyes of the infants. Monkeys proved difficult to infect. Baboons were less resistant.

The author concludes that inclusion blenorrhoans a distinct chinical entity. It appears from five to nine days after birth and persists for from three months to a year. It is resistant to treatment. All cases of inclusion blenorrhoan and most cases of swimming-pool conjunctivities are due to a virus disease of the genito-urinary tract. Both conditions are distinct from trachoma. Virgil Wescott, M.D.

MacCallan, A. F : Trachessa in the British Coloriel Empire: Its Relation to Blindness; The Exist of Monce of Relief; Monce and Prochylaria. Bra J OMM 1934, 6 6 5.

MacCallan discusses the Incidency of truckome and acute conjunctivitis in various parts of the

British Empire.

In Canada there are few unumportant for of these conditions among Hebrew and Eastern Enropean insulgrents. Among the ladean, who have incressed by ro per cent in the last ten years, the racidence of trachoma and acute conjunctivitie is about o per cent Aledical officers examining immigrants are given instructions for the recognition of trachoms. At the Indian residential schools a definite treatment procedure is followed ben the services of an eye specialus are not available. This includes the use of an antmoptic eye-lotion tablet. copper-atrate olutment tubes, individual ere droporns and Iracl solution

I Asstralia the disease is regarded rather lightly. but shows definite huntation to the outskerts of established settlements. In the civilized communities its incidence is lower. In areas in which it occurs school children are examined frequently and afforts are made to educate the public with reserd to it In New Zesland and South Alrea, cases of

trachoms are not very common

In the Indian Empire trachoma is very wide spread. It is reported to be universal in many of the provinces. The most important effort to combat. it has been the controlled culutment of trachomatons recruits in the Ledian Army Investigations made in the cases of such recruits show that the disease is axiespread among certain classes, partic ularly the Sikhs, of bom ell over no per cent are infected. The infection starts is childhood, and in the majority of cases ultimately reaches quescent stage which causes bitle disability. In the past harge numbers of trachomatons men have been enlisted and ha e served as efficient soldiers. No evidence has been found to show that the charact as so infectious as to render the enhancest of these men danger to their fellows or to the British troops serving 1th them Of 61 trachomatous recruits enlisted during the past year of were ducharged as pacurable. In many of the schools every boy below the age of twelve yours was found infected On the other hand, of 1,500 hoys in school t Simle, on the heights of the lower Himshaves, only per cent were injected Il th overcrowding and mammitary conditions among the poorer chases conditions are ideal for the spread of trachoma because of irritation from flies, smoke and dust. In its earliest stage the disease is its ya neglected, and is its more advanced stages treatment is often dis continued by the patient when comparative relief has been obtained. Because of the huge expenditure of money which is accessive to combat cholers, plague, and malarra, it is impossible to devote the required funds to improve the ocula condition of the neocle

In Malta the disease was practically universal among the poorer chases at one time, but as the result of the treatment given during the last ten years by government dispensaries and distract nurses, ophthalmic conditions have been greatly inproved In 913, only 533 cases of trachoms agre imparted.

I the Ariatic colonies trachoras is very common. but its exact incidence is uncertain. Treatment is provided whenever possible by traveling motor dapensaries and by clinics. In Palestine the percent ge of blind persons among the population is greater than in any other country in the norld The expmated sumber of blind persons per 100,000 population in various countries is as follows. Palestuse, 844 (blind in eye, 1968) Egypt, 776 Latra, 776 Terkey 97 British ladis 30 Italy, 11 Emplied, 78 France, 71 Germany 39 and Holland, 16 From a review of the various causes of bluedness in Palestuse the conclusion is reached that these cause include trackoms complicated by infection but set uncomplicated trachoma of the first stage

In the Empire Crown colonies and Protectionies

the incidence of trachouse varies

In \$.713 cases of gonorrious treated in Tanganyaka there were no cases of gonorphical ordalisms In the American Imperial Cross Colonies so record of trackount as found to the coverament health reports. In British Goung no trachess is reported, but hypopyon alter keratomalatia is fit

tracest because of deficiencies in the thet. Also freturent are night blindness and tenne ambhopma Trachous is prevalent in the Fin Islands and

occurs also in the Pacific Islands eroso The survey indicates that is the absence of feltunating epidemics of cut conjuncti ris added to trackness the population may be generally injected with trachoma without any insistent depend for treatment or prophylams. While the scheme for promivieum must be adapted to local conditions, a method which can be applied in all countries in treatment of the children in the schools and of

their parents and relatives in hospitals and chaics

Trachoms shows a stages. The first stage, which to characterized by trey pusheed follicles, and the second stage which is characterized by seletimers follicles or papillary development, are the references stages. The third stage, is which creatmention begins, is much less infectir e, and the fourth stage, that of excatrged trachouse, is not infective. I uncomplicated cases deterioration of visual armity may result from safiltration of the corner manufested by pannes or by fraction produced by trickings entropeca causing corneal olcuration

Ours of trackoma results from the laving des of contractal tissue in place of the trachonatous granulation tissue. This may occur spontaneously or as the result of the daily application of countries over a long period of time. Our means of inducing the formation of cicatricual timer are no better today than thirty years ago

FOR AND S PLATE ND

Hagedoorn, A Adenocarcinoma of a Meibomian Gland 1rch Ophth, 1934, 12 850

Tumors of the merbomian glands are either adeno mata or carcinomata. The tumor described by the author was formed in its more quiet areas of bands of schaceous mother cells arranged on a basal mem brane, above which there was a successive metamorphosis into sebaceous cells. This is the picture that may be expected in idenomita Honever, most parts of the tumor showed a marked irregulants of arrangement and the presence of other types of cells closely related to pavement epithelium (prickle cells, keratohvalin containing cells, and a The Sudan III test few horn producing cells) showed fatty substances and the polarized light test reverled cholesterol in large amounts. Metastasis developed in the parotid region and the supra clavicular glands, and the patient died from the effects of the tumor

The frequency and malignancy of such tumors are difficult to estimate as the diagnosis may be easily missed. Only about sixty growths of this type have been described. The author warns against the impression gained from the literature that tumors of the meibomian glands are generally adenomate and therefore benign. He states that, according to the evidence, one half of them tend to become malignant.

In conclusion Hagedoorn says that in cases of tumor of the parotid or supraclavicular region the general surgeon and pathologist should bear in mind that the eyelid may be or may have been the site of the original tumor. When suspicion arises staining of a frozen section with Sudan III is of considerable aid in the diagnosis.

LESLIE I McCox M D

Castroviejo, R Experimental Detachment of the Retina im J Ophth, 1034, 17 1112

The author reports a satisfactory method for the production of permanent retinal detachment in the eves of rabbits. The detachment has all the clinical characteristics of idiopathic retinal detachment in human beings and even after as long as four months no cure has been observed. An incision is made in the conjunctiva along the equator, the rectus muscle is severed, and an incision of 2 mm is made through the sclera, choroid, and retina into the vitreous. Trom 0.5 to 0.6 c.cm of vitreous is then removed by suction by means of a blunt hypodermic needle, the retina is separated from the choroid with a spatula, and the vitreous is reinjected between the sclera and choroid. William V. Mann, JR. M.D.

#### EAR

Taylor, H M Prenatal Medication as a Possible Etiological Factor of Deafness in the Newborn Arch Otolaryngol, 1034, 20 790

The author is of the opinion that certain drugs have an affinity for the auditory nerve, and that idiosyncrasy for drugs may be an important factor

in nerve deafness. Chief among the drugs causing nerve deafness is quinine, which is frequently used during pregnancy. There is evidence that when certain drugs acting upon the auditory nerve are administered to the pregnant woman they pass readily through the placenta and may be toxic to the fetus, a possibility which the otologist has virtually impored.

Prenatal medication as a possible etiological factor of deafness in the newborn is of sufficient importance to warrant cooperative research by the biochemist, histopathologist, obstetrician, and otologist

JAMES C BRASWELL, M D

#### NOSE AND SINUSES

Watson-Williams, F Cancer of the Nasal Accessory Sinuses With Reports of Thirteen Cases Practitioner, 1934, 133 717

Malignant disease of the nasal sinuses is not very common. It occurs most frequently in elderly persons. Although a diagnosis is generally possible before dissemination has taken place, the results of

treatment are usually poor

polypus is not infrequent

The author reviews thirteen cases. Three of his patients showed evidence of chronic sinusitis. One of the patients with chronic sinusitis and two others ascribed the onset of the condition to influenza. Although neither sinusitis nor influenza is rare, such histories may indicate that these conditions are of some etiological significance. It has been stated that malignant change in a "mucous"

The symptoms of cancer of the nasal accessory sinuses are determined by the situation rather than the histological character of the growth. When the ethmoid is involved the patient complains usually of nasal obstruction and a discharge. The ethmoid was involved in six of the cases reported. When only the antrum is affected, pain, swelling, or stiffness of the cheek is the initial symptom and nasal symptoms may be absent When only the ethmoid is involved. the cheek is normal. Of the author's four cases in which both the ethmoid and the antrum were in volved, the cheek was swollen in two and the palate in one In either localization of the disease, epiphora, proptosis, or diplopia may occur Glandular swelling is somewhat unusual in the early stages genographic examination yields a characteristic picture in half of the cases and useful information in all Biopsy should be deferred until treatment is arranged

The author describes the technique of radium treatment. He emphasizes that disturbance of the tissues should be minimal. In his cases the total dose for a primary growth of average size has been from 2 5 to 4 mgm. In his cases the total dose for a primary growth of average size has been from 2 5 to 4 mgm. In given in an exposure of from seven to ten days. Special attention has been paid to the spacing and distribution of the needles and their fixation in place so that every part of the obviously affected tissue is exposed to the irradiation from at least two needles at a distance of not

more than 1 cm. When cervical glands have been obviously involved, the author has preferred irradia tion to dissection.

Of ten patients traced from the to five years after treatment, nine were allve and tree from JOHN K MART MD

#### MOUTH

De Cholnoky T Round-Call, Spindle-Call, and Assertofenic Sercometa of the Lip. Am J

In a review of the literature the a thor found the reports of so succomets of the lip. Nost of the reports at 30 serromates or tase up store or the records were incomplete. The majority of the serromata occurred in Persons of advanced years but a occurred in a child Most of the subjects sere women. To the cases found in the literature acto women. As the tases from an the interaction the author addit 4 cases inch were found among the author stone 4 cases man were sound among the Stuyvesant Square Hospital, New York.

The serconate most frequently reported were round cell and spindle cell sarromats, but lymphround cen and metanosarromata have also been described. It could not be learned from the reports how many of the neopleans originated on

The first case reported by De Cholnoky was that woman (wenty one) cars of ge. The tumor was of six months direction and located on the mucocontaneons border of the upper bp It was electrated. Its eract size is not stated. Microscopic section showed

diffuse growth of moderat saxed cells of the lymphoid type invading the muscle and containing many mitness and many small blood ventels. The

diagnosis was round-cell serrouna

The second case as that of man fifth is yours of age who had suffered an acid burn of the face and the twenty months previously. The hp had never the executy manufactures previously than the interest over a period of three months. The tumor was a hard, lobelisted or inter months and termine was a metal accounted and alcerated mass measuring 3 by 5 cm. Amounted with the growth was a squamous celled epitheliona Sections of the growth aboved oval or fundorm cells arranged in interlacing bundles invading the deeper parter y nests of shripeins cells are accommend Four months after operation deep caremomatous mass developed in the parond repon. The patient mas believed t have separate timore a spandle cell sarcoms of the periodanic type and cen agreems or toe beingman type used the choose. He was still sive six months after the

The third case was that of a man sixty-tw. Years old who sought treatment for a leason of wasks' duration which originated as and never hosled. The lesson was recented and few presented an indurated pearly border Sections presented an incurated pearly notifier persons revealed interlacing bundles of fibroblasts invading the lip The diagnosis was spindle-cell surcoma

The fourth case as that of man many two years old who had a up lesion of four weeks' duration which began as "cold sore" and had falled to heal

The tumor was blank red, oval, and r can in di-Am traces has make see, upon seen a con me character. The cells were of the Shrobian type, oral and insidoms, and irregularly interfacing Scattered. throughout the mass ners small bundles of being fibers. The disgnosis was neurogenic serroms. The patient prescrited no other features of you Reck linghausen a disease.

Is all of the cases the lesion occurred t the ver milion border and, unlike most successes, therested LOCK T BYAN, MD

Friedman, M., and Rubenfeld, S. Hallgrane Nespleans of the Upper Respiratory Tract in the

T sacertain the incidence of malignant records of the upper respiratory passages in the young the thors reviewed 3-16 Cases of respirators of the respiratory passages which were treated in the Radiation Therapy Department of Bellevis Hos-

pital New York, in the period from 1943 to 181 They found that 5 per cent of the tumors occurred in persons trently years of age or younger Fifteen of the tumors developed between the first and fath years of hi 17 between the sixth and tenth 14 years or in 17 measurement and affects had ay bet era

Of 3 1 oral majignant tamora, 3 per cent occurred in patient; searly sears of age or younger. These included 5 spindle cell astromate, 1 lymphosarcose, and 5 epitheliometa. One of the patients with cerand 3 characterists. One or the particular arts on the

The epitheliometa did not occur in the sites in which they caselly occur in adults—the sites of maximum irritation but in the lympho spitkenium covering the tombs and in pharyageal lymphoid detail

The 9 cases of oral mulignancy are reported in

The a thore state that the disgrees of make nearly in the young is frequently mixed or delived because the observer is maled by the patient's pe In a case of surrouss of the chiek which was dear nosed very carly the condition remained costrolled two years after treatment by irradution Interstrial or topical irradiation is preferred in malignancy to the young because the deficate skin of children prevents the use of large doses of external LOCK T BYAN, MD

#### PHARYNX

The Results of the Treatment of The Results of the Treatment of Melifement Tumors of the Ear Ness, Pheynx, and Layar in the Period from 1934 to 1821 (Deber de Erpronne der Behandung besurper Tumores des Chres, der Asse, des Rechas, und ex Kehlkopfen aus den Jahren #24- 914)

In the period from past to \$1,000 cases of manipulant fumor were treated in the East Nose, and Throat Chale of the University of Lepzig. The results were not encouraging Only 9 (4 47 per cent) of the patients remained free from recurrences and symptoms after four years and only 41 (20 39 per cent) remained free from recurrences and symptoms for from one to four years. Twelve have developed recurrences and metastases, and the others are dead Of those who died, only a few were benefited for any considerable period. The majority were only slightly or not at all affected by the treatment. In most of them the tumor continued to grow or metastases were formed. Some of them died as the result of the treatment or from complications. A few of those

who died received no treatment The best results were obtained by thorough operation performed early Except in a few isolated cases, roentgen irradiation, whether in the form of deep irradiation with large and supplementary doses or with average doses given over a longer period of time, and whether given alone or as postoperative treatment, was of no particular value Neither did radium treatment nor any combination of treatments prove of much benefit In all of 13 cases in which the Coutard treatment was used it was followed by breaking down of the tumor One patient subjected to this treatment was free from recurrence and symptoms for a year, but the others developed recurrences or metastases The metastases could not be influenced The Coutard irradiation caused no local injuries, and in only 1 case was its interruption necessary because of the occurrence of a too severe general reaction

Metastases developed in 83 of the 200 cases, in all of the cases of tonsillar tumors, and in about 50 per cent of those of epipharyngeal, hypopharyngeal, and laryngeal tumors and tumors at the base of the tongue

Attempts to treat metastases by extirpation or

irradiation had no effect

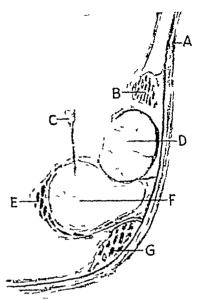
On histological examination, 138 of the tumors were found to be carcinomata, 35, sarcomata, and 21, other forms. In 7 cases section was not done All of the tumors of the vocal cords and of the external nose and ear and the majority of those of the larynx, hypopharynx, ethmoid, and upper jaw were carcinomata, whereas the majority of the tumors of the epipharynx and tonsils were sarcomata

Among the tumors of the nasal sinuses, the numbers of carcinomata and sarcomata were about equal (Gerlach.) Jacob E Klein, M D

# Wood, G B The Peritonsillar Spaces An Anatomical Study Arch Otolaryngol, 1934, 20 837

The ease with which the large majority of tonsils can be displaced from their normal position is of great importance in the technique of tonsillectomy. With the dislocation there must occur a disturbance of the normal anatomical relations. The author attempted to discover the nature of the anatomical disturbance.

He found that the tonsil was readily separated from the superior constrictor muscle by a gelatin



The needle, C, inserted just under the mucous membrane of the posterior pillar. The gelatin mass, F, occupies the posterior pillar, comes in contact with the posterior surface of the tonsil, D, but does not spread into the tonsillar fossa or posteriorly into the lateral wall of the pharymar A indicates the superior constrictor muscle, B, the palatoglossus muscle, E, the palatopharyngeus muscle, and G, the salpingopharyngeus muscle.

mass injected experimentally into the tonsillar fossa. This seemed to prove that there are no firm attachments between the superior constrictor muscle and the tonsillar capsule and that when the tonsil is dislocated toward the midline the space of the peritonsillar arcolar tissue is filled in by approximation of the anterior and posterior pillars. However, there was evidence of a firm attachment between the sheath of the palatopharvingeus muscle and the posterior surface of the tonsillar capsule.

Certain barriers to the extension of the injected material were found. Practically all of them run in a longitudinal direction, following more or less closely the arrangement of the faucial musculature. The solution of gelatin injected readily traveled upward and downward, but was definitely limited in its

forward and backward extension

The spread of suppurative conditions within the superior constrictor muscle seems to occur in the same planes as those followed by the gelatin mass in the anatomical injections. When a suppurative process begins in the tonsillar fossa—peritonsillar abscess—it extends upward into the palate, but does not invade the posterior pillar or the posterior pharyngeal wall. However, if the infection starts in the posterior position—the tonsillar fossa and the lateral pharyngeal wall are not involved.

SAMUEL KAHN, M D

Goetach, E. Correct and Incorrect Use of Iodine in then, i.e., Correct and incorrect Use of Manne in
Treatment of Gotter Ass J Surg #34.

Sample colloid goiter the inactive type of parenchymatom goter commonly develops when the intake of iodins is deficient or the metabolism of in the body is faulty. Sample colloid or notine in the today is taking supple traces to endemic gotter may be prevented by the prophy lactic administration of minut amounts of iodine near numerous or minute amounts of thyroid extract together with small amounts or myrom where the This is the only type of gotter in which the therapeutic administration of societies is fodicated. The prolonged administration of loding may occasionally property and the property of the thyrod gland. The induscrimnate administration of sodine may activate a non toxic going and executate the symptom of a non touc sound and continuous of sound to the foliate failer. The administration of sounds in preg-nancy is indicated only in the presence of inactivity

The dministration of lodine does not prevent the growth and development of tree adresoms and bas no place in the medical treatment of that condition A commonly activated and the symptoms of torce admona, re exceptioned by symptoms or to be acceptant to the acceptance of the acutely torce adenomatous gotter is some (as accuracy to the management according favorably influenced by some, particularly ment is received in the selection of source, particularly when the metabolic rate se high. Admorate assowhen the necessary takes a man character may contain the feater degrees of hyperthyrodism may show relatively little improvement and an apper ciable number may be made acutely worse by some

When foding as administered to a patient with Graves disease who has not been given sodine orayra disease who day not been given some permany marker transaction and the course of the disease is produced. Operation should be per to the means is bromer. Oversion should be betduring the rememon, related often occurs and a cooding of uncontrollable hyperthyrodism may result. The gland becomes relatively insensitive to the further administration of iodine lodine has little effect in controlling postoperative hyper thyroidism A hyperthyroid criss occurring spon tayronamy in the course of sovere Graves decase may tancount in the course of severe courses oncess one, be effectively controlled by large amounts of sources green orall or intravenously. If the cross is the Frem evan or minarenously is on the creation of incorrect administered socious, the farther administration of sonne, even in large

## Birkett IL & Liposon of the Larynx Intrinsic in East 11. ds. Lappense of the Lasyna total Origin, J. Laryngel & Onl. 934, 49, 733

Birkett reports case of lipoma of the lary nx of Different reports case of appears of the service of the service or appears as done der general angethens Opening of the laryax as on general autratural Opening or too mayax as anecessary because, on retraction of the subcutaseous tiesue the turnor on the thyrobycodes membrane. The impor was enucleated with case being free from ttachments

It was proved to be a lipoma by microscopic cran-The case reported is supplemented by files-

an conclusion Birkett says that inpoms of the in the man of latrices origin is quite rare. He was able to find only four cases reported in the literature

# Carland, L. H. Carcinoma of the Laynz. Co.

The Contard method of treating mahamast tamous of the pharynx and larynx by madiation is based on the fact that cells in mitods are much more radiosemitive than cells in reating stage. When the time of administration of state of active grea dose of irradiation is protonered a greater n mber of tumor cells in state of miosa are il most or tonce cone in many or mouse and damaged than when the dose is at on at once or over a short period. Since pormal cells recover from the effects of irradiation more quickly than tamer cells, the themes tolerate here dose given over a long period of time much better than the same dose concentrated within about period of time

The radioscalifyity of criticals tamers design these with the increase in the differentiation and keratistission of the cells. The order of radio Renationation of the cens too order or reasonability of tamors of the pharyax and larger had to be as follows, small-cell lymphometric and larger had been supplied to be as follows. esta to or as reasons, sommercu i impressationata, incomata, hypobo-epithehomata, transitural cell curcusomata, landicrepiated spacsoon epithebonata, and pearl-forming differentusted epidermold epitheliomata

In the verse case of carcinoms of the laryer recerring protracted radiotherapy the skin dungs the third and fourth eck develops weeplay exfoliation and the entire thickness of the spiderims caronatana and the cuttor information of the spanning over the freshed area peels off. However, the cordina and subcattaneous themes are not dentroyed and within another two seks complete regeneration occurs The fact that no other transcr are dissolved or nectoned differentiates this penils "chequinities on ocner connect are many to occur. I are nect control of the penils of the from true roesigen necrous Concomitant with the

lary nx Coutard treats the patient antil marked mucositus involving the muconius develops II the tumor has drappeared by that time and if its histological presence suggests that it is of the amplistic type, the treat ment is decontinued. If the tumor is of the inguly differentiated type, the treatment may be contransed according t the judgment and expenses of the radiotherapur. The chief danger of moder

te overdouge is the effect on connective these which provents or delays complete beahing Ex treme overdousge is followed by accross of bone and certifego

ther presents nine cases treated by modified Coulard technique Of four patients rith moderat tecome, three are bying with the condition clinically arrested and one died of broachoporemonus th pulmonary abacemes shortly after the treatment as began One patient treated for postoperative recurrence classified as moderate at

clinically well. Of three patients treated for an advanced postoperative recurrence, all are dead One of these showed no improvement after the treatment, but two showed definite and remarkable improvement. One patient with an advanced lesion who was not operated upon has shown no change since the irradiation

A comparison of the results of irradiation and surgical treatment in several recently reported series of cases reveals that the best radiological results are exactly twice as good as the best surgical results at the end of four years, while the mortality of surgery is considerably greater than that of irradiation Final judgment must, of course, be held in abeyance until the follow-up observations have been made over a much longer period of time

The author's conclusions are as follows

r Many cases of carcinoma of the larynx can apparently be cured by adequate, carefully administered roentgen therapy

2 As none of the nine patients whose cases are reviewed has been observed for a period of five years, the number of chinical cures cannot be stated. However four patients are chinically well at the present time

3 There was no mortality directly attributable to the roentgen therapy in the reviewed series of cases. No late necrosis of cartilage or bone, and no pharvngeal obstructions developed following the irradiation. Nevertheless, such complications may be expected to arise occasionally in a sufficiently large series of cases.

4 Roentgen therapy avoids destruction of the voice and in the cases reviewed it resulted in no dis

figurement of the neck.

5 The choice of therapeutic attack in cancer of the larynx appears to be a joint problem for the radiologist and surgeon. The indications for one or the other or both procedures vary in different cases

ARTHUR S W TOUROFF, M D

# SURGERY OF THE NERVOUS SYSTEM

# REALE AND ITS COVERINOS; CRANIAL

Lorracula, G., Poo, M. R., and Urcaray L., Treat many of Applyyde of the Gerbras (21ff to 1986) matter, exclaims and Their Vaccine Complex storms on Subsections of Subsect of Complex matic Accounts and 1 deer 1 account Computer those by Subcriterarcox 1 sections of Carbon Car Dioxide (Tratamento de la adria de la cirita Directe (Pratamento de la santa de la cuesa cerciral en les accadentes transmissos y sen comcontrol of the accelerates that addition from the present of the control of the c

The a those present a preliminary report of experiments in which does rendered consistons by experiments to some maps removed commune of the head were treated by subertaneous ture on the acad sere treated by salvertaneous of carbon diordis. The injections were indicated by improvement of respiration and a rapid ted in all consequences makes the training and a takes seasons and residuation in the parties occurred sortes, then only require tory improvement weather and death was merely delayed. As much as 400 and death was morely desired as impen as 400 The Injections produced only tachy pore libout cyanosis

From the results the authors conclude that in concession there is a silundation of the sympa thefit with associatifiction appel bequies carefully toem was vancoused too waster produced circons. carbon dioxide inhibits the sympathetic thus reported the hamseld coordings of concession and its accompanying respiratory disturbances and im to accompanying required y consumences and im-proving the circulation. In addition ( sturmledge the Landau (oak center | central caudatonic effect and direct peripheral vascoliator action of ener and outer personal vectories across on the capillaries. The latter accounts for the rebel of the exputates the actor accounts for the trace of the cerebral apply ma. The theoretic of carbon

the cercural aspentance the hadrent to carona course only screening a slight transmit required to the stimulating the medulis directly by the free gas The athors report three chancel cases which ere the about about a diministration of

treated by the subcutaneous summatration of carbon thousands. The first was case of fracture at caroon control on the stell complexited by meninged the last of the stall complexited by manipul memorrhage. The patient recovered privately between the state of hemorrhage and other 10/2002 Although each namorrings—and other injunes. Although our injuries produced temporary improvement, the injection produces temporary improvement the patient died in abook 1 the third case, a case of patient case in abook i the intro case, a case or street car accident, a and and conclusion cost after the account a single layerage resulted in immethal and coalined

The authors use the carbodental sparklet with The animors use the carpocental sparses with conducted outlet and a connection invented by Zorraquin which attaches to appoint needs form quan wince attaches to expounding nervice the aid of

Manifesters. The present, velocity and quantity of the gas can be determined and controlled The the gas the os temperatures and transposed (see the front 3-400 to 3 600 C cm injected over 3 period of from forty to stray minutes the series of sport to series of sport to be series of sport to c cm and ander a pressure of 100 fb short to accept to c cm and states a pressure or too to awar a too they are very core colonic. The effect of the layering As the tory are very cost cases. And effect on the species in The treatment is particularly valuable in one soy for incoment is particularly variable in con-conston, skull fractures, come from framewise or and other schools of Associat status

Marral V A New Technique for the Treatment H E Moser, M D of Traumente Block of the Ventricia (Dr. se transmon more or the ventrous (the

The author notes that transatte block of the Act and the sound time incuments where we constructed as proceeding consistent of this type of teston for the construction of high, as is shown by the stretters of ratios are peop in the author, opening the plant country, the way possible. group in the action opening, the aign appreciate a disc parity to further to make an exact dispose and battly t the fact that the suited sustants or one teach to make an energ ordered need the been breed too exclusively on anatomical then have oven maken too excurators on anatomics.

physiopathological aspects of the lesion In training of the brain blocking of the route of communication between the reputible and the cattle Learners assects and occur any conscions. interference with the circulation and sharption of interierrors with the currenties and attentions of the compression and The operation densels by the a thor to repeate this condition of sampleday. block is designed to establish block is designed to establish vicanous uncon-tion of the cerebrosposal florid, provide a slot soo or one ceremony and marken some or posity normal intraventionar prossure fast done experimentally or dogs and when found to po sale crassing so accorded symbotom and upon oe asic, causing no eccountary symptoms and reserving the transports of reatments; before was chapted in the same content of the same content of the same content of the same content of the reserving to the reserving of the reserving of the reserving of the reserving of the same content of the reserving of the r considers thereon will devote a case of the form of the form of the form of the form of interaction from the form of the form two uses, one writers 3 cm comes one current actions canal and the other perpendicular passing 3.3 cm above that canal The incident passing the common commo 3.5 cm above that canse the mention is veneral and a cm long. The bone is exposed and trepthad by the ment technique. A special trocer 5 on long and 5 mm in themseter is used with styles taper ing to a point similar to thoracontest needs At ing on a pean annual to Increasures a necess in the extremity which is to rest against the crimit

through a very small incision in the meninges so that it is perpendicular to the cerebral cortex When introduced its full length up to the lateral wings, it reaches the ventricular cavity The stylet is then slowly withdrawn so that the cerebrospinal fluid escapes drop by drop When no more fluid escapes the stylet is completely withdrawn and three silk threads are placed in the lumen of the trocar and pushed in gently with the stylet. It is not necessary for these threads to be in the ventricular cavity The trocar is fixed in place by means of its lateral wings. The ends of the silk threads are fixed in the cellular tissue of the sternomastoid region. The trocar and the silk threads are left in situ until the symptoms of intracranial hypertension and commotio cerebri disappear—from the ninth to the twenty-fourth day in the author's cases No symptoms of intolerance to the presence of the trocar have developed in any case. This operation has been done in eleven cases. Two of the patients died within twenty-four hours, but as autopsy showed severe cerebral lesions and extensive hæmorrhages in both of them their deaths cannot be attributed to the operation The nine other patients made an excellent recovery without complications The first patient was operated on in April, 1931, and has recently reported himself entirely The other patients have not been traced since their discharge from the hospital, but were under observation for sixty days and showed no mental or neurological symptoms when they were discharged The eleven cases are reported in detail ALICE M MEYERS

Stier, E The Importance of Investigation of the Equilibrium Apparatus for the Judgment of Old Head Injuries (Die Bedeutung der Untersuchung des Gleichgewichtsapparates fuer die Begutachtung alter Kopfverletzungen) Monatsschr f Unfallheilk , 1934, 41 385

After a general discussion of the important points of view in judging skull injuries and a detailed discussion of the importance of vestibular disturbances in such injuries, the author reports his own investi-

gations

Of thirty-seven clearly proved cases of fracture of the vault of the cranium, he found an appreciable difference in the excitability of the vestibular nerve in only one, and in this case it was due to a central injury Among twenty-nine basal fractures in the region of the temporal bone, there were five fractures of the bony capsule of the labyrinth with complete destruction of the eighth cranial nerve In four cases the vertigo which at first was very severe was so greatly alleviated by central compensation after a few years that the patients regained almost full working capacity In all of the other cases the injury to the vestibular nerve was much less severe and the tendency toward improvement so great that in one-third of the cases no limitation of working capacity was apparent after one or two years According to these findings, the majority of patients

complaining of vertigo after basal fractures receive accident compensation much too long

Of seventy-three cases of concussion of the brain. a complaint of vertigo was made in only thirty-seven It was possible to demonstrate a unilateral disturbance objectively in only ten of these thirty-seven cases In four of the ten there was a peripheral injury with a suspected basal fracture, and in the remaining six there were central disturbances which probably had their origin in small hæmorrhages Of eight cases of unilateral central injury to the vestibular nerve after head trauma, only five presented the picture of concussion of the brain. It therefore seems apparent that a simple concussion of the brain usually does not produce injury to the vestibular nerve and that, on the other hand, circumscribed hæmorrhages in the brain may give rise to vestibular nerve disturbances in the absence of all other symptoms

(L DUSCHL) FLORENCE ANNAN CARPENTER.

Rohde, W Primary Melanotic Tumors of the Central Nervous System and Its Membranes (Ueber primaere melanotische Tumoren des Zentralnervensystems und seiner Huellen) 1934 Hamburg, Dissertation

The author reports the case of a fifty-year-old woman who had hairy pigmented nævi on the face and extremities (on the latter as large as the palm of the hand) and came to operation with the symptoms of brain tumor The tumor was not found on trephination and the patient died two days after the operation Autopsy revealed a large melanotic

tumor in the left temporal lobe

According to the findings of histological examination, the tumor had its origin in the inner leaf of the pia mater. The cells contained pigment and were arranged in groups, packets, and thick strands External to the tumor, cells filled with pigment were found on the inner leaf of the pia in addition to normal endothelium-like cells. The tumor had displaced the brain tissue, but had not infiltrated it. None of the sections of skin nævi examined showed signs of malignancy The author cites about thirty similar cases from the literature melanotic pial tumor was regarded, not as a metastasis, but as a primary tumor developing from the meninges

Rohde next discusses the various theories of origin of the pigment According to some the pigment is derived exclusively from the outer germinal layer, while according to others it originates also from the endothelium arising from the mesenchyme (LEHMANN) FLORENCE ANNAN CARPENTER.

Puech, P, and Stuhl, L Roentgen Study of Tumors of the Hypophysis and the Hypophyseal Region (Contribution à l'étude radiologique des tumeurs de l'hypophyse et de la région hypophysaire) Presse med , Par , 1934, No 92, 1849

Roentgen examination is of great importance in the localization of tumors in and near the hypophysis. In some cases it may show the histological nature of the tumor. It serves also to differentiate intrassities tumors from certain tumors to distance tumors of the posterior foece, for example—which affect the hypophysis and its serves and simulate tumors of the hypophysis challenge.

The mentgenogram of true tamors of the hypophysic-edenometa and transophery agiomata-is quite characteristic la cases of chromoobobe adenousa the sells is enlarged in all its diameters and its walls re trophied The enlargement occurs particularly in the anteroposterior direction. The floor is horizontal, and the anterior and posterior clinord processes are small, tapered, and less opaque than usual. In cases of acadophile adenoma the enlargement occurs to the vertical direction and is accompanied by acromegalic changes. The walls are thick and the chnord processes are long and hypertrophied although their lower surfaces are eroded. The tubercie of the sella is abnormally protruding, furning a beak between the two optic nerves. This characteristic beak may interfere with surgical removal of the adenous

Craniopharyagonata are generally suprassilarbut in some cases develop in the sella itself. Occasionally they are ratrilaypophysical. They cruse not only changes in the sella, which vary with their formization, but also caldifections, which are gen-

crally suprescilar

Jettueellar tumors, which include intrausiliar manipuonists of the students of the sellent source of the chiasan and optic serves, laterosellar mentagonata of the lesser using of the spheroid, server using, praeditar obtactery meniagionata, and bose harmandomata produce less characterisatic periodical servers, are of and in strandstrausic periodical preture, are of and in their dogmont pre-daymont may be confirmed by pre-speriative ventrelingingship. Amuser Ones Mennas, 30

Kornbi m, K. und Gunnand, L. H. Deformation of the Sella Torcica by T. more in the Pitultary Fosca. Jon Surg. 015. 20.

The authors review seventy four cases of tumor of the pituitary force is which cureful roentgenolog ical examination as made and the findings were verified at either operation or a topay. They state that in roentgenography of the pitintary form 1 is sheel tely essential to obtain it least one true interal mentgenogram sa which bilateral tructures are superimposed. For this purpose it is best to have the patient siting or I sag prone and to use special Bucky displacem adapted for these positions. A naturactory pict re cannot be obtained by having the retient term his head onto the plate as when this a done distortion muslly results. If stereoscopic films are desired, they may be obtained by moving the tube the full length of the stereoscopic skill for a ard or backward. In the average adult skull the netwitary force is \$ mm is depth and mm in the nteroposterior diameter. The highest normal for these measurements as pam and

The cardinal changes occurring in deformations of the testila tracks, regardiers of the location of the tumor, are. (i) strophs of the location of the tumor, are. (i) strophs of the foresses selle (i) errors of the feet of

Eviden of the floor is an almost fervitable accompendinger of Intrustile; transcri and usually is quite marked. It is manifested chaefly by definite ealingnees of the pictury form: Everpt is exlargement, the floor may present normal appearance. It may appear to be made up of multiple lines which came difficulty in determining the true level. It may leve the appearance of double bottom, or it may seen I have disappeared completely. Under the latter conditions the tumor may appear to be supposed.

in the schenoidal stam

There is mustly some change in the appearance of the chaold processes, and the tuberculum selfcommonly show a pointed defareaty

commong them is possessed undersort, ownsteps need to control to the complete themselved to the or for the possessed to the view manifestations of an intractabilities of the selfactures produced by intracramial need forming resoluting from an antenediar time of the only one that is in any y pathogenomic I is majority of cases It is sendirely characteristic to establish the desprous of phrontary times. While the product of the product of

JOHN WILTHE PRIOR, M.D.

Balado, M. and Parelal, R. Sargical Treatment of Hypophysical and Parlitypaphysical Treatment (Praisasexto queritypo de los temeres hipotectus) areas y persispoductos). Arch arguel de neuel. 934: 7

The authors report three aspensialist seeds possets, four phonasts of the chains, as crampharyapomatis, reorgenical protospetos of the infraedibilista coverty (number to the conduction to be over a mind at a set to be credition to the town and a set to be conducted to the conduction of the conductio

one eve with birathesa of the other.

Positive rossignaological signs are found in the sells turcon in 80 per cent of cases of hypophysical turnor. I cases of pershypophysical turnor as the

other hand, the sella is negative. The cerebrospinal fluid is always normal as regards both protein and cells

Of the cases reviewed, a typical hypophyseal operation with the formation of a frontotemporal flap was done in twenty-two, a right-sided decompression in five, and section of the corpus callosum with ventricular exploration in three In fifteen, no operation was performed. In all of the cases in which an operation was done iodoventriculography was positive and of great aid in the localization of the tumor In the cases of hypophyseal tumor there were twenty-one operations with four deaths In three of the cases of adenoma the large size of the tumor explained the immediate postoperative death The one patient who was treated for sarcoma is living three years after the operation. In the cases of meningioma there were no deaths. One of the three patients operated upon for glioma of the optic tract died two months after the operation Four patients operated upon elsewhere by the intranasal route were operated upon a second time

The authors have used deep radiotherapy extensively and consider it partly responsible for the

excellent postoperative results

The tumors of Rathke's pouch constitute a special problem. The authors cases of such tumors came for treatment after the stage of blindness had been reached, and five of the six were fatal. The first intervention, after the position of the tumor is determined by iodoventriculography, should be a simple right-sided decompression. If this is insufficient it is necessary to section the corpus callosum and treat the tumor directly

Of the authors' cases of tumor which were not operated upon, four were diagnosed for the first time at autopsy, two terminated in death very rapidly without treatment, and in the others the narrowing of the visual fields and the amblyopia increased progressively in spite of radiotherapy and intranasal procedures

M. C. Morse, M. D.

Elsberg, C A, and Dyke, C G Meningiomata Attached to the Mesial Part of the Sphenoid Ridge with the Syndrome of Unilateral Optic Atrophy, a Defect in the Visual Field of the Same Eye, and Changes in the Sella Turcica and in the Shape of the Interpeduncular Cistern After Encephalography 1rch Ophth, 1934, 12 644

The authors describe a characteristic syndrome of small meningeal growths arising from the mesial part of the sphenoid ridge. For a considerable period such growths produce disturbances due solely to pressure on the nerve near the optic foramen.

The syndrome of primary optic atrophy of the optic nerve with bitemporal defects of the visual fields and progressive diminution of vision is characteristic of tumors which compress the optic chiasm and nerves and is often the first and for a long time, the only, clinical evidence of a midline growth under the frontal lobes of the brain. The combination of primary atrophy of the optic nerve bitemporal

defects in the visual fields and changes in the sella turcica was formerly believed to be characteristic only of tumors of the hypophysis. It is now known that the chiasmal syndrome may be produced by cysts or solid growths derived from the bucconcural pouch or infundibular stalk, by primary gliomata of the optic chiasm, by localized inflammatory processes in the leptomeninges, and by midline meningiomata attached to the basilar dura of the anterior or middle cranial fossa.

In 1927 Holmes and Sargent reported a series of cases of suprasellar meningioma in most of which operation was performed after the growth had become large Early recognition in the stage when visual disturbances are the only signs was due to Cushing The sella turcica often shows changes without the appearance characteristic of intrasellar growths As the result of the report of Cushing and Eisenhardt, the combination of primary atrophy of the optic nerve and bitemporal defects of the visual fields with slight changes in the sella turcica but without any other symptoms of intracranial tumor became recognized as a syndrome produced by slowly growing meningiomata in the neighborhood of the optic chiasm

Meningiomata arising from the dura of the upper surface of the lesser sphenoid wing and those attached to the lateral part of the sphenoid ridge do not press on the chiasm until they are large. After they attain a considerable size they may cause bilateral papillocdema or primary atrophy or primary atrophy in one eye and papillocdema in the other Concentric contraction of the fields or homonymous hemianopia may occur. According to the authors' experience, the so-called Kennedy syndrome is infrequent and occurs only in cases of large growths in or under one frontal lobe.

An important contribution to our knowledge of the life history of these growths was the discovery that the neoplasms arise and become attached more frequently at certain sites than at others Among the most common sites of their dural attachment are (1) the tuberculum sellæ, (2) the olfactory groove and cribiform plate, (3) the roof of the orbit, (4) the superior surface of the lesser wing of the sphenoid, (5) the outer part of the sphenoid ridge, and (6) the messal part of the sphenoid ridge. In the roof of the orbit, on the superior surface of the lesser wing of the sphenoid, and in the outer part of the sphenoid ridge small meningiomata do not come into contact with structures having a specialized function and therefore do not cause symptoms early Meningiomata derived from the dura of the tuberculum sellæ produce visual disturbances early Small growths attached to the dura of the olfactory groove cause unilateral disturbances of smell very More delicate olfactory tests would allow their earlier diagnosis Growths derived from the dura of the mesial part of the sphenoid ridge can be identified early by study of the visual field and the demonstration of changes in the basal cisterns by encephalography

INTERNATIONAL ABSTRACT OF SURGERY

The authors report four cases in which there were the agrees report the come in more come were one eye the to a growth attached to the mental part of one absenced todas. In this of these cases there were no consultances or any other trained nerves, but in con there was complete amounts due to long Standing disease of the spheroid and mailley resource. In all of the cases characteristic changes in the stape of the interpretancelly clitten was re-Acaded by encebpraloguable

cased by encephanography.

The defects in the visual field were due to pressure And exceeds in the visual pena were one to pressure on the nerve near the optic formers which affected most the loss of the nerve which affected to be compared to the nerve of the nerve o A similar clinical picture may be produced by

A summer connects powers may be produced and other benign growths stiffing from the sheath of the optic nerve a thin the orbital cashly and by sociation of the casemors bart of the internal curotid every The former came to the internat carount attery too manage came to changes in the selfs furcice or becomes little of the changes in the sense offices or descrimenters or the basel chieras. In cases of ancurant there is assulfy basis citiens. In case of ancurant there is meaning freely street of the confection abeliacon, and ophthabatic defriction of the information forces, and continue to the confection of the information of the confection of the conf Section in the wall of the sixty act of other visible is contemporaring of the skell sec is often visible in the sixty act of then generated to which the fadings aggressed the presence of the check and satelling of the cyclide sug tumor Recurrent attacks of ission of the caremous stome Among stated whose or has cavarbons some densessable fortractural coordilates which may cause other intractant coordinate which may cause multitral visual disturbances and field defects are certy channel exchangin (such hosers is carry charact assumed to a care of the care of the care of the latter condition seen by the arthur the roent function disclosed the characteristic character of

generate and showed the interpretation contractions of Cetters to be normal in size and outline The surgical approach must always by on the aids of the effected nerve

Dyke discusses the normal and abnormal factings Lyse means the parameters are according memory of encephalography declared the according report the characteristic forms and sella forces, and according to the characteristic forces are consistent to the characteristic forces. describes the changes produced by the rations types of leasons in that area Doel, A. R. Operative Treatment of Facial Palsy

On M. J. Operative Treatment of Facial Palsy

Duel reviews experimental work on nerve states

which he carried out with Hallance it was lound man in various our with manners at was found that when alterna degeneration was permitted t trat when attends to before transpariation the recontinue of the control of the contr species was restored in trust constraint to communications required by fresh fault. The anterior familiar statements customer seas deviced this desired constraints and desired as the constraints of the c coulty samp orie [ Aced quantitating the peaks in its accusaingrit win care t reso concurring too naves at an inquired from two t three weeks

in lorty of art one case operated upon grafts in the follows: can were required upon grafts. the consequence of the consequence of the service of the consequence o and propering the occurrence great the another the cases reviewed was 7 mm gap to so gratten the cases inviewed was 7 mm in the facty cases to which

stating was done in the fallopsia cases, the average Doct states that operation is indicated in any case in which there is galvanic response in the much to when there is survived response to the market have not made

annount to prove tast the musico neve an more fone too much through atrophy. He caphains goes too more mesons attoboy. The submesses sulfreent number of manels (their tearing in their n s sufficient number of muses interpretation is equal to followed by marked improvement. He remodel that in several of his case of helf "Pally lists
had construct," sensitud on based for market ican. and previously remained mechanism for many jour improvement followed location of the shouth of the ROBERT ZOLLDWID, M.D.

# SPINAL CORD AND ITS COVERINGS

Harorth, E. M. The Treatment of Syringsoupele by X Rays. Byk J Radial 914, 7 644. The author discusses the bistory and pathology of stringtonyells and reports are carried and parameter of stringtonyells and reports are carried as the string of the stringtonyells and reports are carried as the stringtonyells are carried as the stringtonyells and reports are carried as the stringtonyells are carried as the means of trusting the disease. If states that more ments of treating the cheek that tourism fraudation is concrete seem to agree that the man the substitute of the substitu very valueble pornées où a missas important in the substitue change, and that the duration of the caset of the Income from the two turns on or the const or on minest teach it supportant continuously to the trainers. Fallings are most likely to occur
in cases in which there was I lead a fire-year
horizon before the instruction of trainers. Four in cases in some the institution of treatment from hitting before the institution of fraction: Arm in such case, however the progress of the disease and the case of tenered is pain. Active or the pain is making on the by improvement in municipal power and how by by improvement in minimal power and score of

ATTACHER AND DESIGNATION OF THE PROPERTY OF TH yes) as to use increases of improvement, they were T hypotheses are advanced to access for the Arough results are advanced to account as the formed next the factorities to one the next factorities to the condition are next factorities for the factorities for the factorities are next factorities are next factorities for the factorities for persons serve more present as the encourse as extremely sensitive to small does of mention man

According to the other, the same or recognic on appear because of rancing transfer deproblemation of young blood reserts, the latter are percentages to young more research the securior of these locals proof scarcie ph the tourise take

The technique has differed considerably Many of the earther workers used small does over a period to the extent worker here sense over a person of many weeks. More recently the tendency is to a many serial arose recently the recently in the serial and another describes various feetings is detail in the cases he reports the technique consisted of the and the property of the constraint of had been a property of the control of the control

The author's six cases are reported in detail. In Secretal, the results one similar ! those reported by previous observers except that the free treatment was soccasial to some extent in all of them Haworth draws the following conclusions

This property of the state of t established place in the treatment of symposystis

2 The technique appears to be of minor importance as many techniques have been successful

2 Early diagnosis is important

4 The pain sometimes associated with the condition can be relieved by irradiation

ADOLPH HARTUNG, M D

#### SYMPATHETIC NERVES

Davis, A A The Surgical Anatomy of the Presacral Nerve J Obst & Gynac Brit Emp, 1934, 41 942

The presacral nerve is the portion of the abdominal sympathetic system which lies anterior to the bodies of the fourth and fifth lumbar vertebræ in the space between the common iliac arteries. Above and laterally, it is connected with the solar plexus and upper lumbar ganglia through the intermesenteric nerves of which it is the direct continuation downward. In the midline, the plexus is connected above with the inferior mesenteric ganglion or the inferior mesenteric circumarterial plexus. Laterally, it receives a branch from the lowest lumbar ganglion on each side. Below, it terminates by dividing into the paired inferior hypogastric plexus. The latter usually consists of two long nerves united by many oblique anastomoses.

Morphologically, the presacral nerve presents many variations. The most common are (1) a narrow plexus of two or more parallel nerves, (2) a true or single presacral nerve, and (3) a wide plexus of

parallel nerves Less common forms are (1) a false presacral nerve, a spider-web plexus, and (2) a wide plexiform nerve The plexus gives off branches to the superior hæmorrhoidal artery, external iliac artery, and middle sacral artery

The presacral nerve lies behind the pentoneum, somewhat to the left of the midline, on the bodies of the fourth and fifth lumbar vertebræ, from which it is separated by a dense sheet of fibrocellular connective tissue The fibrous lamina is easily separated from the plexus and from the lumbar vertebræ behind The middle sacral artery intervenes between it and the bone in the midline. Below the promontory it rapidly becomes adherent, eventually merging with the sacral periosteum. The anterior surface of the plexus is covered similarly with a finer but still definite layer of connective tissue, the locally condensed subperstoneal areolar tissue. The two laminæ fuse at the lateral borders of the plexus, which is thus isolated within a fibrous sheath. This disposition is of considerable practical importance as it allows complete extirpation of the plexus without isolation of its constituent nerves and without danger to the subjacent vital structures The relation of the plexus to the great vessels varies with the level of the aortic bifurcation and the direction of its branches As a rule, half of it lies upon the left common thac vein and half upon the bone. The left ureter and the pelvic mesocolon and its vessels are usually situated well to the left of the presacral DAVID JOHN IMPASTATO, M.D.

# SURGERY OF THE CHEST

## CHEST WALL AND REAST

Tody, M. C., and Dawson, E. K. The Diagnosis and Treatment of Doubtful Mannay Tumors.

Definitely malignant tumors of the breast regular treatment, marginal treatment, whereas temporary and bostphy beingol mammary engagements associated with menstruction or the menopause rarely require with memorious not the memory industry are the bender tumors and the tumors generally are the occupa tomore and the tomore american, referred t as doubtful, burderline, or suspectors, the treatment of which ranges from local excision to radical materiory depending spon the experience and judgment of the surgices. Because of the

spe discharge of chance intended the take of are coverposes to opinion regarding the type of material, operative procedures, not follow up results.
They stress the difficulties of clinical disgnoses and study of their pathological the frequent necessity of triying on meroscopic the irreport because of raying on norrowing examination for the final decision is borderine cases. Their views as I treatment may be sam-

In the cases of young individuals, local excision is adequate for fibro-adenoma and possibly for cer tafa chronic infections. In the cases of patients over thirty five years of pe simple mentertomy is always to be preferred to local excusion for these con

Simple mattertomy is to be recommended for all cases in which there is doubt as to the presence of malignancy the the exception of the cases premanguatory to the cateproof of acute cares par viously mentioned and cases of acute carenoma recently mentioned and tenes or acute circumma and pregnancy and factation tumors. With these exceptions, ample amputation with gross examins tion ill often solve the problem of diagnoses. If test in orien seave the passence of unglosses in maligramy, as present, radical operation should be performed. I once, whereas if the leason as beingn nothing further need be done II impossible by gross examination, a choice ment be made between ( ) immediate radical mastectomy and ( ) later sucroscopic examination followed by secondary radical estupation of uradiation alone If malignancy is demonstrated The two-stage oper tion is not dangerous if raches! removal is not delayed too long

Radical markectomy as primary procedure should be carried out in all cases of obvious usalgnancy and immediately after simple mastectony ben gross examination at the time of operation reveals chnically borderline tumor to be malignant

The chief conclusion drawn by the authors is that distinguise simple manifectorals is the pest initial stage of treatment of doubtful tumors of the breast ARTER S W TOCKORY M D

## TRACHEA, LUNGS, AND PLEURA

Ernen, IL; The Influence of Different Deliver of Distriction upon the Blood Flow Through the Distrution upon the mone river investi the Lind (histon crackindener Debauspruntende and die Darchbeltung der Lange) Deutsche Eines f Chr 934, 143 505.

A review of the literature above that up to date there is no ansalmity of opinion regarding the per fusion of blood in the collapsed lung. Some investfeators believe that the perfusion is locrassed lecross gators occurred and to decreased. In spite of very oussess on a rousse or converses or as state or sen-extensive experience in directly view log and extent and the beatingion of plood in the leads during upper thoracic operations and in spite of extensive knowledge of extensive knowledge. edge gained from his experimental studies, Sener practi concluded that the direction of battarion of blood in the collapsed lung has not yet been def-

Krama reports experiments carried out to deter nine better and in what manner varying degrees of distention exert a mechanical influence on the perfusion of the lung. The amount of perfusion h the long in different degrees of distension can be determined by means of the heart just beclustron over to terestiment by means or the meant man preparation named after Starting. This consists careatisty is exclusion of the greater deculation. The heart and excussion or the greater careanana and analysis of the second and the care circulation remain entirely induct and the changed. The greater circulation is replaced by an artificially closed system through which the left entricle sends its blood. Thes comists of four parts. as arterial registance as substitute for the vacula resistance to the greater circultion () theometer (1) n apparatus for arming the palcoconecc (5) in apparatus no actuage to per-setting blood and (5) regulator of the sensor in afferent blood. The Starling apparatus is above in an illustration, and the experiments are reported in

I the experiment described the blood seat from the right heart through the longs comes out of the left beart unt the artificual greater cheulation which is provided with the accessive arrangements for measurement When no excess or afferent flow of blood occurs in the inflow populates and there is no leak in the preparation the delivery bet centile right and left venturels is balanced. This condition is established apontaneously in few seconds and can be recognized from the courtancy of the curves The volume coming through the greater circulation is easily measured and compared with the for through the inner (Street) speaking, this is less by the amount of the volume of the corosery stream) As this volume is almost constant when the nortic pressure is fairly constant, measurement in the greater circulation in place of measure ment in the pulmonery riers as reliable and

sufficient as the purpose of the study is to determine only the difference in the perfusion in different degrees of distention of the lung and not the absolute amount of the perfusion As the result of the exclusion of the greater circulation in the experimental animal the central regulation of the respiration is also eliminated and artificial respiration is necessary It is therefore possible to investigate not only the influence of the frequency and depth of respiration, but also that of pulmonary inflation resulting from varying degrees of obstruction to expiration The volume of perfusion in the lung under a constant respiratory pressure can also be measured As compared with normal respiration there is of course a difference as the respiration is not a suction breathing but a pressure respiration For distention of the pulmonary vessels and the difference in pressure between the right ventricle and the left auricle which is necessary to overcome friction within them, there is no physical difference between normal respiration with a closed thorax and positive pressure respiration with an open thorax as the heart and the pleural space remain under the same surrounding pressure

The following records are made in every experiment (1) the average aortic pressure determined with a mercury manometer at the free leg of the cannula in the innominate artery, (2) the average pressure in the right auricle determined with a water manometer through a cannula inserted through the inferior vena cava into the right auricle for control of the inflow of blood, (3) the average pressure in the pulmonary artery determined with a water manometer in a branch in the upper lobe of the right lung, (4) the perfusion volume of the greater circulation determined by the Stolnikov method, (5) the intratracheal air pressure determined with a Marey capsule placed toward the trachea in the Y-cannula, and (6) the time in seconds determined by Jacquet time marking. These six registrations are made on an optic Lymograph by shadow projection. In addition, the temperature of the blood is measured with a thermometer in the cannula of the superior vena cava and read when the stream volume is measured

The experiments showed that in the heart-lung preparation of Starling the minute volume falls with increasing distention of the lung. It is immaterial whether the pulmonary distention is produced by constant pressure, deep respiration with expiratory collapse, or rhythmical forced breathing. In spite of the falling minute volume, the average pressure in the pulmonary artery is increased as the result of increasing resistance in the pulmonary stream bed. In very marked distention failure of the lesser circulation may occur.

When the respiratory air is constant and the pulmonary distention is moderate, no distinct influence is exerted on the stream volume by the frequency of respiration

Complete collapse as compared with moderate distention of the lung shows a diminution of the

minute volume A simultaneous decrease of the average pressure in the pulmonary artery with an increase in the stream volume during the forced respiration of a collapsed lung is caused by a decrease in the resistance in the stream bed in the lung

With constant distention of a collapsed lung the minute volume increases from 3 to 6 per cent, but with distention of the collapsed lung by slight to moderate rhythmical forced respiration it increases from 17 to 22 per cent Comparison of these figures apparently shows that in a lung in forced respiration the resistance in the stream bed is less than in a lung equally distended but not subjected to forced respiration. Therefore, in the respiratory rhythm there may be a force which strengthens the pulmonary perfusion and is manifested by the decrease in the average resistance in the pulmonary stream bed

With exclusion of half of the stream bed of the lung the stream volume diminishes only about 10 per cent, but when the entire lung with the exception of one lobe is excluded the stream volume diminishes about 57 per cent

The clinical results of the experiments show the hæmodynamic behavior of the pulmonary vessels and reveal the influence of various degrees of distention upon the pulmonary stream bed. The changes are manifested not only in the resistance and the amount of perfusion, but also in the amount of blood in the lungs. The changes in the pulmonary circulation constitute only a part of the process taking place during respiration. The described changes in the stream bed are of clinical importance only when the right heart is no longer able to meet increased demands.

However, for the surgeon the results have special interest because they constitute the basis for an understanding of the effect of certain therapeutic procedures and of disturbances during and after operative interventions in the thoracic cavity example, pulmonary collapse therapy is based upon an artificially produced relaxation of the lung obtained by pneumothorax or removal of bone from the thoracic wall. It has long been believed that the curative processes begin with a change in the perfusion, but up to the present time the nature of this change could not be determined with certainty Experiments have shown that optimal perfusion occurs, not when the lung is collapsed completely. but when there is slight distention or forced breathing equal to a movement of from 3 to 15 mm of the edge of the lung Therefore it is evident that the optimal effect of pneumothorax is obtained, not with positive pressure causing complete collapse and complete cessation of respiratory movements, but only when there is still a slight distention or respiratory movement in the relaxed lung Under the latter conditions a specially favorable perfusion of the lung is obtained. This theory of perfusion in the relaxed lung applies of course also to all other constricting measures such as thoracoplasty, paraffin filling, and exeresis of the phrenic nerve. Therefore during the operation it is important to adjust the

differential pressure apparatus so that whom the thorax is open the best possible periosion—algebra proces as oben one near becomes becomes a setting This empirically discovered fact has been

proved by the experiments between the reported Heatergoes it was percent that the behavior Attention at the end of intratherack interventions tracerious as the same of incomments and remarks as in chose contact with the inner surface of the thorace Contact with the inner satures or the inoracie was towerer market distension is not gravely designable. In other words, it is better if a stight than the start of a stight than the start of a stight than the start of the paramothorax permis and theory may expand the fact that pocurosoile is very tare following fatts thoracic interrentions or at any rate, occurs much

thoraco intervention or at any tate, occur mean the after each operations that after and operations that after a fire a fi are requestly after each operations that after interventions in the upper abdoman When the distinction at the end of the operation is moderate to the companion of the operation is moderate and the operation is better and engagements in the the circulation is better and engogenment is less likely to occur

they to occur

Recently, retaining therapy has been pointed on
the street of the lang up postoperatory postion in uncessful results. This beneficial effect
is explained by the finding of the beneficial effect

As in a language and the ultra-capital. is explained by the manings of the union experi-ment. As in all inflammatory processes hyperemia cames the inflammation to disappear more quickly and the control that the control is a support of the treet. and randers it less harmful the effect of this treat ment by dee to the Improved perfusion of the

Ringer P. II. Surgery in Polimonary T. Desculons in Increasing Importance. Joseph Surges, 1944.

Ringer discusses the angical treatment of pulmonary toberculous f on the medical point of view He states that preminothers is indicated when there is prepared to prefer the forces of the state of th there is a progressive and preciously monocarrily in the children of the control factors than exposure seaso, with or without cavity formation, in one lung, the contralatest long is contained, in one time the children may be collined only a fabroix and quiescrat lesson, and the side from which the bleed quescent tesses, and the sor from which too been the Cathering profuse hemophysis is definitely sacer

Fire operations performed ( obtain pulmonary collipse are ( ) phrencectom ( ) phrencectomy tombre are 1 (patroucción (1) porsucerrons plus esclesolom (1) estenal potenti potenti

The beneficial effects of phremoectomy are partial compression of the irray related to the femous on partial adherence, and the prevention of the femous on the femous of the femou permat annewors, and the prevention of an analysis of the long Partial compression comp movement of the 1 ng Farms compression at the 1 ng Farms compression in a company of the 1 various constraints. The organization may not the all or may rise 5 cm or more traceprantant pleoral adhesions become slark as result of the rise present automorphism of cavilies previous held open to the dispose gram no carries provious new upon me close. The becore of di planamatic breathlar on the fiered side place the long treat Expe the ce present and the percentage is beneficial in there are above that pureasers on a community of the pper tobe as ell as discuss of the

La cases ith pical cavilles, phrencactomy with calculation will often give better results than

phresisectiony alona. The certifies of the wants bellies I the three scaled allows the foor opper octors I top torce schem shows the four open The to drop, and as the action of the intercent number on the four upper ribs is dependent spon farthen of the fart rib by the scalent spon resources for the part of the law, it Firstly reduces morement in the aper of the bare. reduces movement in the aper of the hear.

External precumolysis or photypes are more
found earth farm in America. The author describes

he operation briefly is done in cases in which adjustions payrent collapse by the faction of the Through a thoracoscope, adhesions are studed and Antiques and they are cut with an electromyted and This is a highly specialized procedure. Or 's reported cases' internal beautioning to tradent an ameritifactory colleges satisfactory in 75 per

In several, thoramplesty is bindled to case of moderately or for advanced crosses to case of and the matchest between the second construction and the second s atin to without the topological in a new row asserting the throughout the first of without certifit to the control of the first of the control of the contro the manufacture type, with the analog service of the control of th tom or congruent, and common principally to one takes the precrit condition, best, and finitions to take training and all other training to the condition to the training to the condition of the conditions are conditions. intercursor are taken grown and an overest stranscent including a sufficiently long strategies and transcent to be because on backets and backets are because of (timbed to papers stripped became teams was fried

In conclusion the author states that ampical in concerns the author water that measures are not intended to take the place of the measure as not intended to take the place or on deler making in tender tuberclass. They are nearly appeared for making interesting the pro-nessing of the diseased large purpose in the action of the diseased large. Before supery in the control of the diseased large to the control of subsects and the diseased large.

Brann, II. Lund Abscuse, f Am M Art 1934.

The anthor discusses various methods of treating long abother and reviews the end results in so, case tranted in the period from to 5 to 014

He states that postural drainage is not as valuable in long abscess as in broochiectary. In the case of in their answers as in processors as the case of the c formers was at a m to a sometimes marginals as more formers. Position fonders experiently more formers, and the state of t recomment position removes experioration merchanical and reduces the chest volume. Unless the about his broken mto a broachm, postural driba-

Broochocopy is anaethefactory as a method of Arthoral poeumotherse tends to breek dos pro-

ferring addresses and only favor register of the decrease into the extraplement space with the result Threme persiyes and amphonamin treatment are dometurfactory aditivant.

A-ray Destinent may prove to be a valuable For dragnouls, Brunn countriers V ray cramination

most important. Il Places bittle rehance on pay sical chargons, but states that in the interpretation of the configured the surface must be guided by the Andings of physical exercises one

Because of the predominantly anaerobic nature of the organisms present in lung abscess, aeration of the abscess by wide surgical opening is imperative. Operation should be performed in 2 stages, the first stage consisting of attachment of the visceral pleura to the chest wall. In 32 cases in which a 1-stage thoracotomy was done the mortality was 64 per cent, whereas in 28 cases in which thoracotomy was done in 2 stages the mortality was 32 per cent.

Of the total series of 205 cases reviewed, 133 were treated medically and 72 surgically Of the patients treated medically, 63 were benefited Of those treated surgically, 40 were benefited and 32 died

Prolonged medical treatment previous to operation is apparently of no advantage

G DANIEL DELPRAT, M D

# Edwards, A T Malignant Disease of the Lung J Thoracic Surg., 1034, 4 107

Edwards reports on seventy-three cases of carcinoma of the lung Fifty-three of the patients were men Forty-eight were between forty and sixty years of age The oldest patient was sixty-nine and the youngest twenty-six years of age The right side was involved in thirty-three cases, the left side in forty, the left lower lobe in twenty-six, the right lower lobe in twenty, the left upper lobe in fourteen, the right upper lobe in six, the right middle lobe in five, and the right hilar region in two

Among the important symptoms were cough, the expectoration of sputum which generally was of a mucoid frothy type but occasionally was definitely purulent, hæmoptysis varying from slight staining to brisk hæmorrhage, dyspnæa, and pain varying from occasional discomfort to intense neuritis

The chinical signs were generally those of bronchial obstruction causing atelectasis of the involved lobe. In the later stages there was secondary pleural effusion. Loss of voice or hoarseness or the appearance of Horner's syndrome suggested the presence of the disease in the mediastinal glands. Clubbing of the fingers and toes was not uncommon

Roentgenography, bronchography with lipiodol, and bronchoscopy were of the greatest aid in the diagnosis

The treatment consisted of radical operation or the implantation of radion seeds. The author designed special containers for the radion. These had a lumen for the passage of air and fluid when the containers were impacted within the bronchus.

The end results were poor, especially when the diagnosis was made late. However, in a fair proportion of the cases the treatment resulted in definite relief and prolongation of life, and the author believes that in a small proportion there is a chance of cure.

J Daniel Willems, M D

# Farinas, P L Serial Bronchography in the Early Diagnosis of Bronchial Carcinoma Am J Roenigenol, 1934, 32 757

Serial bronchography permits a diagnosis of bronchial carcinoma in its early stages and therefore

should be used in all cases in which bronchogenic carcinoma is suspected from the clinical picture

The roentgenological signs of bronchial carcinoma depend upon the type of the tumor. The polypoid type causes a filling defect which, when observed in profile, has the appearance of a notch in the bronchial contour. The infiltrating type produces concentric stenosis which generally occupies a considerable portion of a large bronchia and extends along its branches. The necrotic type produces irregular bronchial cavities with diffuse borders. When the tumor is located near the large bronch it may compress or displace them. When it is more peripheral it displaces the bronchioles or the parenchyma

The negative shadows, the notches, the concentric stenosis, and the irregular bronchial cavities with diffuse borders (produced by destruction of the bronchial walls) are signs of bronchiogenic carcinoma in its early stages. J Daniel Willems, M D

## Geschickter, C F, and Denison, R Primary Carcinoma of the Lung Am J Cancer, 1934, 22 854

Reports in the literature on cancer of the lung emphasize the increasing incidence of the disease, its frequent occurrence in young persons, and the importance of bronchoscopy in early diagnosis. The disease runs a rapidly fatal course with early and widespread metastasis to other organs. Untreated patients rarely survive the diagnosis by more than six months.

The more common form, which usually occurs after middle age, is the hilar cancer composed of epidermoid cells resembling the lining cells of the large bronch. The less common form is a diffusely growing adenocarcinoma which usually occurs earlier in life.

Cancer of the lung is more common in males than in females Irritants causing chronic inflammation are believed to be predisposing factors

The disease may be present for some time without causing symptoms. The first sign is usually a dry, non-productive cough. The expectoration of bloodinged sputum and of tumor tissue, pain, and clubbing of the fingers and toes are late manifestations.

The physical findings vary with the size and location of the tumor. As a rule physical examination discloses localized duliness, increased breath sounds, and diminished tactile fremitus. A cough of insidious onset, wheezing respiration, and dyspinæa out of proportion to the physical findings are important clinical features. In some cases the earliest signs and symptoms may be due to metastases.

The authors review 60 cases in which the diagnosis was confirmed by microscopic examination and the distribution of the tumor determined by reentgenography or autopsy Eighteen of the neoplasms could be readily classified as adenocarcinomata and 34 as cancers of the epidermoid type. The rest could not be classified satisfactorily. In typical cases of hilar carcinoma the roentgenogram

was followed by vocalting, weakness, and the in the temporature to roy degrees F. The patient developed granulocytopenia: She had been given allowed and pyramickou Aflar several doses of peatmedesticle and a blood translusion she recovered. Later X-ray treatments given at longer

intervals and in smaller dones were well borns. The pathological diagnosis of the lung tumor was cardinoma of the lung, Grade 2

The patient was discharged in fair condition on April so, 1934.

I conclusion the author calls attention to the difficulty in diagnosing a primary tumor easily the importance of the proper interpretation of early symptoms the difficulty of interpreting easily reentgenopms and the comparative case with which jobectomy may be performed successfully an unlable cases. J Lower Kazarararac, M D

Overholt, R. H. The Total Removal of the Right Long for Ostelname. J Thereoe Surg. 1944.

The a thor reports the first case of removal of the entire right long for malignancy. Removal of the entire left long for malignancy has already been reported in the literature. In the author's case, bronchoscopic beopsy was negative for malignancy whereas the chrical and X ray wideness was strongly positive.

Pollowing the preliminary induction of pactumethorax, the operation was performed under same thesis induced with an intratracheal tube and a closed circuit. Cyclopropuse gas smeathesia was chosen because it can be induced with concentre tions as low as from 5 to 15 per cent and therefore perceits the administration of from 85 to 05 per cent of exyren during the course of the surgical assesthesis. While the surgeon was working on the root of the lung, the augethetest purposely caused cause tion of respiration. Appears was undeced by over ovvernation until resperatory movements stopped Gentle and informal inflation and deflation of the left long was carried out artificially by mampulating the beg on the closed circuit rebreathing apparatus The appear was maintained for forty-are minutes and greatly facilitated the work on the lung root

The hop was removed to one stage and the chest closed orthout thmeshate thoracopiant? That procedure is of advantage became the pathological condition is removed material sugar, with the and sight thousand present against the least taid mediasmous can be controlled [Thoracopianty was performed later East O Larmaca, M D

#### CHOPHAGUS AND MEDIASTIKUM

Orbester A., and Owens, N. Anterothoracic (Tsorbasophaty for Imperessable Stricture of the (Esophistes. A. Jurg. 1914, 80 1055)

The first attempt at anterotheracic enoplageplasty was made by Bircher in 1841, and the first successful anterotheracopia, performed in

and incomplete sectes of operations in 3 per cent in demants-computagolarity the new mophages informed entirely from the action of the action theorem the orthogonal stable being seed to consect the certainty and the stomach. The interpretational manipolation is minimal and the entire stable can be made in a stage. A disadynature is the case of the operation of the skin table by the patch contrast at the point of anastomosis between the statin tubes and the stomach. The operation was completed in ap per cent of the case in which it was completed in the and it cases in which it was completed, the

results were good or fair la 3,6 per cent. In lythno-complexinguistry the new complexinguistry the new complexinguistry has men attended from a loop of Jejasom which is nothing attended to the thorus and beneath the sits of the attended them. A theoretical advantage of this type of operations in that the gain trains in perfutible activity. A decided disadvantage, however, is thought of loop long canous to critical from the corrieal region to the stomach. The operations was completial rayly per cent of the case in which it was attempted a reposition of the contraction of the co

Triumodermeto-resorbanoplasty condets in the formation of a skin tube for portion of the sawly formed ossophages and the use of a mebalized loop of persons for the remaining portion. The advantage of this technique is that the jejumum is better the to withstand the digestive action of the storack than the side tube, and when a skin tabe is used for the upper portion interference with the blood separ of the jeymal loop is less ant to occur. The operation was completed in 65 3 per cant of the cases is which it was tried, and the results were classified as good in 97 8 per cant of the cause in which it was completed The uthors believe that this is the procedure of choics although at requires large number of operations. The average number in the cases preserved was 4.1 whereas the average mamber in the cases in which felune coophisophisty was done was it In cole-traophagoplasty loop of the colon is used to bridge the distance between the cerrical emopiagms and the torsach. This operation was detre in relatively small group of the reviewed cuest, but was completed as 6 per cent Fair to excellent results were obtained in 90 per cent of the cases in

In salphingogustro emphagoplasty the new couplagus is formed by table formed from the stames, A disadvantage of this procedure is the danger of

which it was completed

digestion of the skin tube by the gastric secretions in the cases in which a tube of skin is used. Of the cases in which the operation was attempted it was completed in only 10 per cent

Gastro-œsophagoplasty consists in mobilizing the entire stomach anterior to the thorax and anastomosing it to the cervical œsophagus. It has the advantage that it can usually be done in 1 or 2 stages, but the disadvantage that it is a formidable procedure. Of the cases in which it was attempted it was completed in 45 4 per cent. Function was good in 60 per cent of the cases in which it was completed.

The mortality rate in the entire series of cases was 32 6 per cent. The mortality was highest in the cases in which the entire stomach or a long loop of bowel was used in the reconstruction of the esophagus—66 3 per cent and 46 6 per cent, respectively. It was lowest in the cases in which the esophagus was formed from the colon or by a combination of small bowel and skin tube—22 2 per cent and 22 7 per cent, respectively. The percentage of completed operations was highest—65 3—in the cases in which jejunodermato esophagoplasty was done, and next highest—63 3—in the cases of dermato-esophagoplasty in which only skin was used to construct the new esophagus

It was lowest-8 3-in the cases in which a tube

was formed from the stomach

The authors report a case of their own in which a jejunodermato-œsophagoplasty was done for an impermeable lye stricture in a child ten years of age The patient had had a gastrostomy since the age of four In the first stage of the operation a loop of jejunum was mobilized, the distal end connected with the stomach, and the proximal end brought up to the lower portion of the thorax to be subcutaneously anterior to the sternum. The second stage consisted of the formation of a skin tube from the skin of the anterior surface of the thorax. In the third stage the cervical esophagus was mobilized, and the esophagus was divided just above the stricture The distal end closed blindly, and the proximal end brought up into the wound and anastomosed to the previously formed skin tube Fistulæ developed at both ends of the skin tube, but following repeated operations were successfully closed

On the basis of their experience in this case the authors recommend the use of a flap at the lower end of the skin tube to decrease the danger of fistula formation at the lower end, and invagination of the cervical esophagus into the skin tube to prevent infection of the anastomosis of the esophagus to the skin tube

## Souttar, H S Cancer of the Esophagus Brit M J, 1934, 2 797

It is only rarely that radical removal of a carcinoma of the ecsophagus can be considered, and in spite of a few brilliant results, it seems most unlikely, on the basis of the pathological factors, that radical surgery can ever become a practical method. The depth at which the ecsophagus lies, the fragile nature

of its wall (which possesses neither a submucous nor a peritoneal coat), the complexity of the structures by which it is surrounded, and the age at which carcinoma of the cosophagus occurs are all opposed to a direct attack. Therefore relief of the dysphagia may be sufficient cause for gratitude

For relief of the dysphagia we have 3 methods at our disposal dilatation, intubation, and gastrostomy The use of gastrostomy is, of course, a confession of surgical failure If gastrostomy is to be performed, it should be done before exhaustion has increased its dangers and decreased its value Dilatation should be attempted only under the direct The dysphagia is control of the esophagoscope usually relieved immediately by this procedure, but is likely to recur in a few weeks. To prevent its recurrence the author devised some years ago a fletible tube formed of a spiral of German silver wire which has an expanded upper end and a twisted oval section to prevent its upward displacement This tube is now in general use. On account of its extreme flexibility, it is readily tolerated. patient is usually quite unconscious of its presence, and its large lumen allows the passage of ordinary food With reasonable care in the preparation and mastication of the food, the tube should not become blocked. The slight difficulty experienced at first in the introduction of the tube has been overcome by the author by a very simple device. It was found that even after full dilatation the lower edge of the tube had a tendency to catch on the end of the growth and would not pass through the lumen This can be entirely avoided if, before the introduction of the tube, a small cone of gelatin is inserted into its end. A glycerin suppository of suitable size will answer the purpose perfectly The facility of the infroduction of the tube produced by this simple device is very remarkable. The gelatin dissolves in a few minutes and passes down the œsophagus

The author's experience with the described methods now extends over about fifteen years and includes more than 300 cases. These methods aim solely at relief of the dysphagia and not at cure of the disease.

At present it appears that cure can be hoped for only from some form of irradiation. For irradiation we have at our disposal radium and the X-rays. When intubation with the author's spiral tube can be effected, this tube may be used very conveniently as a support for radium. A narrow gold tube about 6 in long is filled with radon gas, its ends are sealed, and one end of the tube is wound into a circle 1/2 in in diameter to form a ring to which a thread can be attached. This tube is lowered into the spiral tube, the ring resting on its upper aperture. The emanation tube does not interfere with the passage of liquids through the intubation spiral and is easily withdrawn at the end of forty-eight hours.

A method which the author has used extensively is the introduction of seeds by means of the exophagoscope into the substance of the growth itself It might seem that this procedure is essentially

shows a solitary man, usually to the right and over saves a society man, meanly to the tight and over imposing the meditatibal shadow. In typical cases appeng the memanana amoore in typical cases of lobality carcinoma, multiple masses to seen in screen! lobes of one or both lange.

yeither surfacts not inaction has bended season occurrences Accused an in the treatment of lang cancer. However, were soccession in the treatment or man constraints are reto a study or 120 team, talastics and a carry source the duration of his to be fire months longer in cases the measures or are to be are mouths sought in cases treated by fracilation than is those and so treated treates by manuscon usua is made not so drawed.

Exclusion has been accomplished successfully in recent years, but noce of the patients subjected to the operation has been followed for five years.

Jackson, C. L., and Konnelmans, F. W. Broochief Carcinoma, J. Therack Surg. 934, 4. 55

The authors review thirty two cears of bronchoto some it said the come or conserved to the conserved to pursonary cancer to wroth the magnosan was con-firmed by broachescopic bloopy. They emphasize the importance of broachescopy as a diagnostic procedure in conjunction with any stady processes in conjunction with visy many increases that that bronchoscopic examination is definitely constant to the confidence of the conf some man ornamentaries examination is communicated in cases with evidence of brooches obstrucinstance in case with creative to investigations of the utimest importance in the cuty tage, at as or one outside importance in the carry disgnost and accurate localization of peoplesses. Ad as Inite for radical surposi procedures it has as game for income suggest procedure it was become almost a roution procedure in several of the occurs attook a tourney procedure to arrows to coin the cramination of patients with coops and exheritation or persoblish spen (pe man biocodores fall to reveal the presence of t berrulosia

In dearthing the technique of biopay, the authors in concentrate was reconsque to taken your answers state that before higher is done a careful study of sate that order unpey is case a careful steep of the presentation partners around no many areas of express of any distortion, first on, and infiltration of the broachial wall should be noted. The tissue for the internal was success to moves the theory or examination count be obtained from the growth itself and not from the inflammatory and some or gram and not drawn the immandance of the lations. Care about dee taken to persons traums to ntronal brunchial spurs and to aroad bitms too deeply into the transe. If the broached wall shows no definite involvement or only slight beigning. biopsy should be postponed

The thors discuss the classification of broucho And hoophams on the base of the type of cell Of gent, integretation on the owner or the type or the the serr adenocarcinomata seven aquamous-cell cer chomets of cell type difficult commence trans, continuous or one type concern to establish is combined squamers cell careconstraint and adenocaremonata four, diffuse small round-cell or so-called medulary carchemata four contributions a second measurary caremonates over contributions a similar to the last mentioned group but a th cells presenting. Now content or tubular our notice presenting more colonic or violent and three metastatic circummeta. The authors state that in the grading of broad

And arrivers sense that in the graning in order to the chancel and focultering spike facings must be taken into account The prognous manage term be taken into account the proposes in the cases reviewed was green. I data, none of in the came ferrence, was given the persons are need source on causes making the appearance of symptoms.

The history and the A-ray bronchoscopic, and

bopsy findings in each of the thirty-tao cases

reviewed are reported. The article is professly raysened are reported (as arrows a prometry fillustrated with photomicrographs of some of the (muota and quarinta sportational or mans or re-tinuous and quarinta sportational or mans or rebbeatages sential of appending real out

T ttle, W McCu and Womack, N A. Bronchis facile Carrinoms A Chaeffeation in Raintie Sense Carcinoms A Camelication in Relation to T estimate and Prognosts. J. Threat Seri

Most, if not all, primary carrinomats of the large are of broachogenic origin, arising from the ton are to move angular torgon, arming most the won chief epithedium. These tumors are changed by the authors into () those arriving in a major broaches, authors into 1 / toom alliant to a major whomas, and (2) those arising in minor bronches or the

lang partners as a many property or in They are classified further on the bank of inform Tumors of Grade ; are those in which now of the cells lend to reaemble adult dilated only or sobiet cells or form definite squarous epithelius Those of Grade are tomore which for the nor part shore a tendency forward differentiation, but the calls of which are not quite so mature. Of Grade 1 sale (emons searce and of cells appear to prime or others.) are tensors made up or tens warm to make those of the bens! epithelial injer

in the reviewed cases, the length of time changes bet cen the onset of the symptoms and death arrenged teenly to and six-tenths months in the of tumors of G ade statem months in case of turnors of Grade a and t tire and eight trails months in cases of Grade J

Most of the lexicos of Grade

major broacht, and most of the less differentiated kenoes in the smaller broochi or the periphery of the hing

As compared with fusions of the mlnor broach as compared with timeses or the more or the major and the periphery of the hing, tunors of the major broachi prodere symptoms curfer cuted more districted more cashy (especially by bloopy (through the broachoscope) and are more amenable to surgery

Sin, C. B., and Newhof H. A Teyographic Classification of Primary Concer of the Land I D WILL IS STEEDED, M.D. Les Application to the Operative Indication and Training. / These Surgestive managements

Because of the fact that I the present time interest in exocer of the lung seems to be customed on the advisability of surpost removal, the authors are the automorphy to surgest stronyat, the automorphise fed to surgest new classification of custom of the last based on gross topography and distribution that they have found of aid in determining oper ability From actions they conclude that, in general broadcast monary carcinomata can be divided into fromps with very few borderines cases. The classic cases they suggest as as follows:

Circumented cancers (meally operable) Parenchymal (per cent of the setal number) X ray exemination above sphenoal aclidemarcated growth h the substance of the hing, some of which

may involve nearly a whole lobe. In cases of large tumors, bronchoscopy may reveal compression of the bronchi. There are usually no symptoms except those referable to the local increase in the size of the neoplasm. Regional lymph-node involvement occurs late and is limited.

B Peripheral (12 per cent of the total number) X-ray examination shows a well-demarcated shadow at the surface of the lung, which widens at the chest wall Bronchoscopy is usually negative. The symptoms include local or referred chest pain Regional lymph-node involvement occurs late and is limited.

Non circumscribed, infiltrating cancers (usually inoperable)

A. Main bronchus, non stenosing and stenosing forms (63 per cent of the total number) X-ray examination may be negative or reveal root infiltration, atelectasis, infection of the lung or pleura, or metastatic lesions Pleural effusion is frequent and may occur early Bronchoscopy is positive The symptoms are cough, hæmoptysis, infection, atelectasis, or metastases Regional lymph-node involvement occurs early

B Branch bronchus (13 per cent of the total number) X-ray examination may be negative, reveal the picture of unresolved pneumonia, or disclose evidence of metastases Pleural effusion may be present Bronchoscopy is usually positive The symptoms are usually those of metastases Regional lymph-node involvement occurs early

At the Mt. Sinai Hospital, New York, more than 250 cases of bronchopulmonary carcinoma have been studied according to this classification during the last ten years

The article includes photomicrographs, photo graphs of gross specimens, roentgenograms, a brief discussion of 5 cases in which operation was done for the removal of a primary cancer of the lung, and an outline of the indications for operation based on the topographic classification

JAY EUGENE TREMAINE, M D

# Eggers, C Lobectomy for Carcinoma of the Lung J Thoracic Surg, 1934, 4 211

Progress in the treatment of malignant tumors of the lung has not kept pace with general progress in thoracic surgery mainly because the early diagnosis of malignant tumors of the lung is still difficult There is much to be learned concerning the onset of malignant tumors of the lungs and bronchi, their progress, their invasive qualities their pathological character, and their radiosensitivity

The safety of lobectomy and pneumonectomy depends on early diagnosis made before the primary

growth has become attached to or has involved the surrounding organs and before the main bronchus has become involved.

A case of carcinoma of the lung in which lobectomy was performed is reported in detail patient was a woman forty-five years of age who was admitted to the hospital January 3, 1934. complaining of pain in the left chest, bloody sputum, dyspnœa, and night sweats The findings of physical examination suggested a pleural effusion, while the history indicated a lesion within the left lung After two aspirations each of 1,100 c.cm of clear straw-colored fluid followed by the injection of air. X-ray examination showed the left lower lobe nearly collapsed The upper lobe was prevented from collapse by dense bands of adhesions as well as by an intrapulmonary lesion resembling a cavity of a suppurative focus, although the pleural effusion suggested malignancy

Bronchoscopic examination revealed distortion of the left main bronchus By this examination it was determined that the lesion was probably malignant although chronic abscess could not be ruled out

In the absence of positive support from the roentgenographic, bronchoscopic, or laboratory examinations, a clinical diagnosis of probable malignancy of the lung was made on the basis of the gradual onset of the condition with the expectoration of blood, the afebrile course, the increasing dyspnœa, and the pleural effusion

Under colonic avertin anæsthesia supplemented by nitrous oxide oxygen and ether, an incision was made along almost the entire fifth intercostal space After some difficulty in freeing the lung the lower lobe was found collapsed and very solid. It was extensively adherent to the upper lobe The upper lobe contained a hard, nodular visible tumor On liberation of the lower lobe the tumor tissue was found to extend close to the main bronchus and numerous small tumor implantations were discovered on the lateral chest wall, in the pleura of the lower lobe, and covering the aorta. In spite of this, lobectomy was performed in the hope that the metastases might be controlled by X-ray treatment An attempt was made to inflate the contracted lower lobe by making multiple incisions in the visceral pleura, but was unsuccessful on account of the thickened condition of the lobe The chest wall was closed in lavers, and closed drainage was maintained through a stab wound in the ninth interspace by a 1/2-in rubber tube, the outer end of which was kept under a fluid level.

The postoperative course was relatively uneventful A roentgenogram of the chest taken after twenty-four hours showed fairly good lung expansion with no displacement of the mediastinum. The chest wound healed by primary union. The patient was allowed out of bed on the eighteenth day

X-ray treatment was begun four weeks after the operation, but was discontinued because of a severe reaction. Later it was repeated and was again followed by a severe reaction. The third treatment

has followed by vomiting, weakness, and a rise in an annual of voming account are a me in the temperature to 03 degrees F. The patient derridoed trampostobenis. She pred permitten terropeu panuscympens one mas pen pres allonal and pyramidon. After several does of pentinedeotide and a blood transfusion the repreningerousee and a sease comments are covered. Later V-ray irrestments afrom t longer

current senter visay treatments given a same intervals and in smaller doses were well bottle. The pathological diagnosis of the long innor was carcinoms of the lung, Grade s.

The patient was discharged in fair condition on April 20, 1034

In conclusion the author cells attention to the difficulty in disposing a primary tamor early the importance of the proper interpretation of early symptoms the difficulty of interpreting seri-Symptoms and the comparative case with which lobectomy may be performed successfully in suitable cases J COMP KINDLINGS, M D

Overbolt, R. H. The Total Removal of the Right Lung for Carcinoma. J Therack Sury 934.

The uthor reports the first case of removal of the entire right img for malgrancy. Removal of the enths left long for malignancy has already been reported in the literature. In the author case, bronchoscopic biopsy was negative for mahamancy whereas the chinical and  $\lambda$  ray evidence was strongly

Following the preliminary municipon of pocumothorax, the operation was performed under sugar thesis induced with an intratraches t be and cosed drunt Cyclopropane gas anesthesis was chosen became it can be induced with cocentra tension at lowes from 5 to 5 per cent and therefore permits the administration of from 85 to 95 per cent of caygen during the course of the surpcal anesthese While the surgeon was working on the root of the lang, the anesthernst purposely caused cesses. to of reparition Apaces was induced by overton or reparation almost was managed by over-copyrecation could report to movements stopped (sentle and minimal infatton and defiation of the cettee and minimal interests and remains of the the bag on the closed circuit representing operators The spoors as maintained for forty-five minutes

and greath facilitated the work on the lang root The bing as removed in one stage and the chest As sain as transver is one stage and the cuese could without mmediate thoracoptasty. The pro-Communication of advantage because the pathological condition is removed immediately and, ith closed the condition is removed immediately and, ith closed taninass is removed immediately and, ith closed and right februa, pressure against the beart and mediatinam can be controlled [Thorseoplast was performed later PARE O LAMBOR, M D

## CEOPHAGUS AND MEDIASTIRUM

Ochsoer A and Owens, N Anterothoracle Gaophagoreasty for Impermentals Stricture of the Esophegus 4ss Jurg 034, 00 55

The first ttempt t anterothoracse enophageplanty was made by Burcher in Sot, and the first as performed to

907 by Roux. The authors have amilyaed the roports of sto cases in which an extensions the especial of the cases in some an automorposes: cascington in these cases 244 operation were performed Dermato-enophs sopietty was dose in personness permato-cooperacoparty in 113 per cent [e]eno emoporacoparty in 113 per cent [e]eno emoporacoparty in 113 per cent [e]enodermato-caoparacoparty au one in

cent con-crobbit babraria in g s bet can't strictle cent con-crobbit babraria in g s bet can't strictle better the cent between the cent betwe cent con-cooperfusively in a 2 ho cent tentoeachystobrath is 0 i become and a miscension caspingsysters arise of operations in 3.3 per cent

an incompare when we operations in 3.3 per conis formed entirely from the airm of the anterior thorax the cutascous table being used to connect the carried onophagus and the storage. The intrapritonal cropulture and the mornion. The morapernomen manipulation is enhinted and the entire skie take can be made in 1 stage. A disadvantage is the danger of digestion of the skin tube by the gastric contents at the point of antercorners between the skin rube and the stomach. The operation was completed in 13 per cent of the cases in which it was competent in 35 per sent to the cases as a section tried. Of the cases in which it was completed, the results were good or fair to 73 6 per cent.

In jeluno croopingoplasty the new croopings a to repair the property to be a conjugate a second from a loop of forman which is nobless anterior to the thorax and beneath the skie of the antorior thorax A theoretical advantage of the type of operation is that the got retains in periodic Open operation is that the gut retains as personned activity. A decided disadvantage, however, is the danger of interference with the blood supply of a pool loug enough to extend from the critical indicator in international parties are respectively and the critical indicator in international parties are respectively in the critical indicator in international parties of the critical indicator in international p to the stomach. The operation was completed in (1) bet cent of the cases in which it was resolved by tendent combigation are knotten of the nontred

J junodermate-enophagoplasty coesists in the formation of a skin tube for a portion of the nexty normation or a same time are a persons or the many formed encycleges and the use of a modified on of jejusoms for the remaining portion. The advantage of this technique is that the jejusom is better able withstand the digestive action of the storach then the skin tube and when a skin lube is seed for the upper portion interference with the blood supply of the Jejumil loop is less apt to occur. The operation was completed in 65 3 per crat of the case in which it was tried, and the results were charified as good in of a bat cent of the cases in which it was completed Yes cont or one cases in which is the procedure of the inthospheric that this is the procedure of choice although it requires a large number of operations. The average number in the case remard was 4.1 whereas the verage number in the cases reverses to which to which the cases are the case are the cases are the cases are the case in apren leastso-deobystobistic ass quos ass

In colo-caophagoplasty a loop of the color is said to bridge the distance between the cervical cropior many the character on seem the cervical oranges and the stormach. This operation was done in a relatively small group of the reviewed cases, but was completed in 6 per cent. Fair to emilient results were obtained in 90 per cent of the case is which it was convoluted.

the supplementary comparing the new cropping opining the new cropping o as an expension of the formed from the stometed by table formed from the stometed I disadvantage of this procedure is the danger of

digestion of the skin tube by the gastric secretions in the cases in which a tube of skin is used. Of the cases in which the operation was attempted it was

completed in only 10 per cent

Gastro-esophagoplasty consists in mobilizing the entire stomach anterior to the thorax and anastomosing it to the cervical esophagus. It has the advantage that it can usually be done in 1 or 2 stages, but the disadvantage that it is a formidable procedure. Of the cases in which it was attempted it was completed in 45 4 per cent. Function was good in 60 per cent of the cases in which it was completed.

The mortality rate in the entire series of cases was 32 6 per cent. The mortality was highest in the cases in which the entire stomach or a long loop of bowel was used in the reconstruction of the esophagus—66 3 per cent and 46 6 per cent, respectively. It was lowest in the cases in which the esophagus was formed from the colon or by a combination of small bowel and skin tube—22 2 per cent and 22 7 per cent, respectively. The percentage of completed operations was highest—65 3—in the cases in which jejunodermato-esophagoplasty was done, and next highest—63 3—in the cases of dermato esophago plasty in which only skin was used to construct the new esophagus

It was lowest—8 3—in the cases in which a tube

was formed from the stomach

The authors report a case of their own in which a jejunodermato-œsophagoplasty was done for an impermeable live stricture in a child ten years of age The patient had had a gastrostomy since the age of four In the first stage of the operation a loop of refunum was mobilized, the distal end connected with the stomach, and the proximal end brought up to the lower portion of the thorax to be subcutaneously anterior to the sternum The second stage consisted of the formation of a skin tube from the skin of the anterior surface of the thorax. In the third stage the cervical esophagus was mobilized, and the esophagus was divided just above the stricture The distal end closed blindly, and the proximal end brought up into the wound and anastomosed to the previously formed skin tube Fistulæ developed at both ends of the skin tube, but following repeated operations were successfully closed

On the basis of their experience in this case the authors recommend the use of a flap at the lower end of the skin tube to decrease the danger of fistula formation at the lower end, and invagination of the cervical esophagus into the skin tube to prevent infection of the anastomosis of the esophagus to the

skin tube

# Souttar, H S Cancer of the Esophagus Brit M J, 1934, 2 797

It is only rarely that radical removal of a carcinoma of the esophagus can be considered, and in spite of a few brilliant results, it seems most unlikely, on the basis of the pathological factors, that radical surgery can ever become a practical method. The depth at which the esophagus lies, the fragile nature

of its wall (which possesses neither a submucous nor a peritoneal coat), the complexity of the structures by which it is surrounded, and the age at which carcinoma of the esophagus occurs are all opposed to a direct attack. Therefore rehef of the dysphagia may be sufficient cause for gratitude

For relief of the dysphama we have 3 methods at our disposal dilatation, intubation, and gastrostomy The use of gastrostomy is, of course, a confession of surgical failure. If gastrostomy is to be performed, it should be done before exhaustion has increased its dangers and decreased its value Dilatation should be attempted only under the direct The dysphagia is control of the esophagoscope usually relieved immediately by this procedure, but is likely to recur in a few weeks. To prevent its recurrence the author devised some years ago a flexible tube formed of a spiral of German silver wire which has an expanded upper end and a twisted oval section to prevent its upward displacement This tube is now in general use. On account of its extreme flexibility, it is readily tolerated patient is usually quite unconscious of its presence, and its large lumen allows the passage of ordinary food With reasonable care in the preparation and mastication of the food, the tube should not become The slight difficulty experienced at first in the introduction of the tube has been overcome by the author by a very simple device. It was found that even after full dilatation the lower edge of the tube had a tendency to catch on the end of the growth and would not pass through the lumen This can be entirely avoided if, before the introduction of the tube, a small cone of gelatin is inserted into its A glycerin suppository of suitable size will answer the purpose perfectly. The facility of the introduction of the tube produced by this simple device is very remarkable. The gelatin dissolves in a few minutes and passes down the œsophagus

The author's expenence with the described methods now extends over about fifteen years and includes more than 300 cases. These methods aim solely at relief of the dysphagia and not at cure of the disease.

At present it appears that cure can be hoped for only from some form of irradiation. For irradiation we have at our disposal radium and the X-rays. When intubation with the author's spiral tube can be effected, this tube may be used very conveniently as a support for radium. A narrow gold tube about 6 in long is filled with radon gas, its ends are sealed, and one end of the tube is wound into a circle ½ in in diameter to form a ring to which a thread can be attached. This tube is lowered into the spiral tube, the ring resting on its upper aperture. The emanation tube does not interfere with the passage of liquids through the intubation spiral and is easily withdrawn at the end of forty-eight hours.

A method which the author has used extensively is the introduction of seeds by means of the exophagoscope into the substance of the growth itself. It might seem that this procedure is essentially

dahgerous since it is impossible to be sure that the section will not enter the medicationm or the sur rounding structures. However in well over to case the author never approached any trouble attributable to this cause. In a few cases a fairly attributable to this cause. In a few cases a fairly attributable to this cause. In a few cases a fairly attributable to this cause. In a few cases a fairly attributable to the section of the fairly attributable to the reality and the particular the contract of the cases. The case of the c

O'Shanghussey, L., and Raven, R. W. Sargical Exposure of the Geophogue, Brit. J. Surg. 934, 363

The a thors carried out a series of dissections to determine the best surgical approaches to the exceptages. Measurements were made of the length of the crooplages and the depth of the organ from the surface at various kerels. The techniques of each approach is given in detail.

Is the approach described by the authors the cervical complexing lying between the trackes and the vertebral botten may be exposed for a length of a ca. At the level of the upper border of the mass begun sternlit by death from the unifore is 6 cm.

Five approaches to the thoracic oscophagus and the portion of enophagus exposed by each are described. The right transplered approach to the

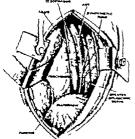


Fig. Exposure of the thosees escophages from the arch of the sorts to the draphrages by the left transpleaming approach. The left long as retracted forward and the compleages in term typing between the decisionless, thereoexists believed and the procurations in front. The little constantes the greatest obstacle to draw vision of the composings.

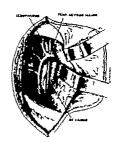


Fig. Exposure of the thorace consplangs at the lateration of the tracker. The princial pleans has been separated from the vertical hadina in decreased descine. The associated from the support between the separated lang and pleans and the boders of the verticars. The vera supprising the motion and the boders of the verticars for the completes as at crosses behind the latter to just the approximation.

typer completages expose 8 g cm of the structural st depth of 3 g cm. The right immolecial paperach to the lower completages exposes  $\chi$  cm of the structure between the lang root and the daughters at depth of cm. If the saypes wen is legard, as additional g cm can be supposed. The left transplacinal approach to the lower completages capses at g cm of the cupys between the arch of the sorts and the daughters are depth of g cm. The right breaks are supposed by the size of g cm and g cm and g cm. The right breaks that approach persuits exposure of g on g a depth of g cm and the left sectionaries approach as g cm as g constant of g cm and the left sectionaries approach approa

The abdominal enophages can be expected for length of about 5 cm at depth of 13 cm by the temple laparoteony method, and for length of about 5 cm at depth of 14 cm by a modification of Marweid's method. By mobilization of the organ and retruction of the contail skip it may be brought almost to the surface of the wound.

The athors conclude that the space croopings best exproveded from the level of the thorses table to the lung root by the right transpisering section in the region of the rings root, by the right mechanism roots and the lower excepts from the level of the society to the region again from the level of the society to the copyright latter of the daphragm by the left transpisering to the region of the right remainders and the right transpisering the region of the right transpisering to the right transpisering the right transpisering to the right transpiser to the right transpisering to the right transpiser to the right trans

Poinso, R, Legrand, M, and Paillas, J E Sarcomata of the Mediastinal Glands (Les sarcomes ganglionnaires du médiastin) Arch mêd-chir de l'appar respir, 1034, 9, 369

Sarcomata of the glands of the mediastinum are primary malignant tumors developed either from the reticulum or the leucopoietic tissue of the glands. The authors therefore prefer to call them "sarcomata" rather than "lymphosarcomata" as the latter term indicates tumors developed only from lymphonoietic tissue.

Sarcomata of the glands of the mediastinum generally occur in children or young adults. Their cause is unknown. Many factors indicate that they are of infectious origin. Among these are the temperature, which sometimes rises as high as 39 degrees C, the infectious condition, the rapid development of the tumor, and the blood picture which shows a slight leucocytosis and polynucleosis. The authors describe the histological findings in detail with photomicrographs.

The tumors are classified into pure mediastinal forms, mediastinopulmonary forms, mediastinopleural forms, associated forms, that is, forms assophured forms, associated forms, that is, forms assophured forms, associated forms, that is, forms assophured forms, associated for a second forms, associated for a second forms, associated for

ciated with other diseases such as tuberculosis, abscess of the lung, or bronchiectasis, which are rare, and metastatic forms Typical cases of the principal forms are reported by the authors with roentgenograms

The condition is fatal The average duration of life is about ten months. Sometimes death results in a few weeks. The longest survival was three years. In the pure forms long remissions can be brought about by penetrating roentgen therapy. The doses should be large enough to cause death of the pathological cells without producing necrosis of the normal tissue. The dosage necessary in the individual case will depend upon the effect on the tumor. The irradiation of the whole tumor should be homogeneous and the dosage so distributed in time as to prevent local and general accidents from too intense irradiation. The cross fire method from several portals of entry should be used to ensure homogeneity

Surgical operation is generally impossible because the tumors are adherent and infiltrating. Median sternotomy may be done as a palliative measure for decompression but any operation is serious in these cases. Audres, Goss Morgan, M.D.

# SURGERY OF THE ABDOMEN

### ABDOMINAL WALL AND PERITONEUM

Cattering, A.: The Beasini Operation and the Brenterran, (c.) the manner operation are the order over Hackmbruch-Drueton Schmieden and Kirschner Operations (De Resissache Operation and de Operationer sack Bremer Hackenbrack-ner and Kirachorn) Labriel f Chir St.

Catterina again cathnessatically recommends the Catterina again calmater poor results as Bassini operation. He attributes poor results as regards recurrences to a poor technique and to the fact that beginners undertake the operation. In his cases the inchiesce of recurrence is only between tand per cent Poor results are explained also by the fact that in German (extbooks the ferhance of the Restri operation is often not described in sufficient detail or described incorrectly. It is de-

scribed best in Kirschner's book The fundamental sim of the Bassim operation is restoration of the inguinal canal from the anatomical and physiological standpoints. There are two openings, one abdominal and one subcritaneous, and two negs, one automorphism and the principles of The walls between bich runs the spermatic cord The wate perween men sums the sperment cost into latera-thought presents forces the posternor all intra-abdominal presents forces the posternor all father against the anterior wall. The posternor wall is the three fold layer of the internal oblique muscle, the transportation muscle, and the transportation function, and which approach the posterior free border of Poopart ligament Cattering inches the transversale lacis separates the triple layer from the prepertoneal fatty times and from the poneurous of the internal oblique muscle lying to fort of it, and, to strengthen the weakest inner point, includes the outer border of the rectus muscle in the first two giftches of the deep row of autures. The well-know high position of the internal oblique muscle never take houses or one microst conduct monoce accor-

the internal oblique muscle drops down after reown or the permet operation the cremaster meach in the discount operation and excussion management in the lower border of the internal oblique muscle and outer border of the rectus and therefore, especially in cases of high position of the internal oblique muscle covers the weak spot lake an pron Catterina clauma, however that its object so not accomplished as the cremater much has no relation to Poupert' brament. It is related only to the testicle. Even though t is some times hypertroplac, t is usually very than Moreover the lajured hen the separated from the over the injured men the apparatus from the approximate cord. Unlike the posterior Bassin well, it does not neet physiological requirements. When the results of the Brenner operation are not poor they depend, not upon the Cremarier, but pon reduplication of the aponeurosis of the external oblique muscle

In the Hackenbruck-Drasner operation a deep in the statement sub-transition operation a company of the special section in not made. The special could be placed between the leaves of the approximate two as peared offer less insistance to the intra-abdominal pressure than the posterior Breshol wall. The controls adhesion between the possession any lead to describe acts in the operation of Director believes that the constriction of the monde benedies by the Interrupted sutares of Basers Comes trophy and it is a fact that Bandal drew his seture so light that they offered resistance to artificial presare at the time of the operation. However, Bulevel and Gusenbauer taught that at the site where the contractile substance of the stockle fibers is constricted by satures it is split of so that only the onnective these sarcolemens abouths are tracked to Poupart s ligament, while the much substance is the immediate vicinity is preserved. Drawer by lieves that the separation of the poneurotic leave from their bed, which was considered injurious by Plans, is harmless because the sutrient chreation is restored after their replacement. He rejects sharp is resource after their repartment. He report sample apparation of the hermini sac became of its danger separation of the respect to persons of the crementer. Horizone, he regards the removal of the crementer muscle which Researd demanded, as success.

Schmieden performed the Bassini operation, but made new internal inguinal ring by boring through the internal oblique muscle. This favors the forms. tion of connective tiesse affections and disturbances in the spermatic cord. Schmieden claimed that is the Basis operation the spermatic cord become angulated because the position of the internal inrainal ring is changed first by the torsion and the high ablation of the bermal sac and then by the eight autures in the posterior wall by which the new ring is displaced opward and outward. Is the Schmieden operation this angulation does not occur and only from three to are trep antares are poted

and these do not penetrate the ture fold laver In the Kirschner operation the cremater is not removed and the spermatic cord is placed subcotancously after it has been allowed to make angular twists. The spermatic cord is therefore exposed to severs injury In Catterine's opinion Knachaer's modification is the best, but is not necessary

(Pravil) Locus Newwell, M.D.

Gundel 11, and Secubrich, F Remits of Further Cilcical and Microbiological Studies of Particnitie and Its Presention and Treatment 1th Serum (Ergebonne wentere kiralecher und autrabeologischer Untermehrungen meber die Parlimete and thre Serempropin lare and -therape) The

In appendicitie, the principal exciting organisms are enterococci and anharmoly tic streptococci, where-312

as in appendiceal abscess and in peritoritis following appendicitis they are frecal bacteria, chief of which are the bacillus coli and the gas gangrene bacillus. The latter apparently acts only through its toxins. However, in all cases of peritoritis, regardless of the site of origin of the condition, there is a mixed in fection in which colon bacilli, enterococci, and gas gangrene bacilli are by far the most numerous organisms. Therefore a polyvalent serum is necessary

In the studies reported the following four types of serum were used (1) a serum against the gasgangrene bacillus, the colon bacillus, and entero cocci, (2) a serum against the colon bacillus and enterococci, (3) a serum against the colon bacillus, and (4) a serum against enterococci. The investigators were not informed of the composition of a serum until its effect had been determined. The deaths which occurred when inappropriate serum was used indicate the necessity for a use of a triple serum. Among the cases studied there were six of progressing enterococcus peritonitis in which a serum against the colon bacillus or gas gangrene bacillus alone or the old polyvalent peritonitis serum would have been of no value.

The new polyvalent serum has a 65 per cent content of antitoxic colon bacillus serum and a 25 per cent content of enterococcus serum, and contains 10,000 Behring units of a potent gas bacillus antitoxin in 20 c cm. This is the serum of choice for all cases of peritoritis at the time of operation

To date, 240 cases of pentomitis have been treated with pentomitis serum and studied bacteriologically. There were 27 deaths, a mortality of 11 2 per cent. In addition, 51 patients were given the new polyvalent serum either for treatment or for prophylaxis. During operation, smears were made from the serosal suture of gastric anastomoses as well as from various peritoneal sutures. Pathogenic bacteria were found in 13 (25 per cent). Of 13 patients given prophylactic treatment, 2 died of causes other than peritonitis. Of the 51 patients given the serum for prophylaxis or treatment, 6 died, but 5 of the 6 succumbed to lung and heart complications.

Stich found that infection is present in 0.71 per cent of exploratory laparotomies. The new scrum should be used to prevent peritonitis from the penetration of bacteria through the intestinal walls. At the end of the operation, while the patient is still under anæsthesia, 20 c cm in from 500 to 1,000 c cm of a 5 per cent dextrose solution should be injected intravenously. For the treatment of peritonitis, the serum is given intraperitoneally.

(FRANZ) JACOB E KLEIN, M D

Mauro, M An Anatomicopathological and Clinical Contribution to the Study of Primary Tumors of the Mesentery (Contributo anatomopatologico e clinico allo studio dei tumon primitivi dei meso) Arch ital di chir, 1934, 38 161

Mauro reports three mesenteric tumors, discusses such neoplasms with special reference to fibromata, and tries to establish a characteristic syndrome for growths in the gastrohepatic ligament. He states that only about 350 primary tumors of the mesentery have been reported and some of them are doubtful. Sixty-five per cent of those reported were situated in the mesentery proper, usually that of the ileum, 25 per cent, in the great omentum, 25 per cent in the gastrohepatic omentum, 03 per cent each in the gastrosplenic ligament, the falciform ligament, and the mesentery of the duodenojejunal angle, 075 per cent near the ileocæcal junction, 18 per cent in the mesocolon, and 15 per cent each in the mesosigmoid and mesocæcum

The three tumors reported by the author were a lipoma, a cylindrical celled carcinoma, and a pure fibroma

The lipoma was a retropentioneal tumor weighing 6 kgm which occurred in a man fifty-four years of age. It had pushed forward between the layers of the mesocolon at the hepatic angle. Two special features of this case were an eosinophilia of 80 per cent and an intra abdominal fremitus which were unexplained and gave rise to the diagnosis of echinococcus cyst. In a review of the literature the author found no mention of these signs in cases of intra-abdominal lipoma.

The cylindric-celled carcinoma occurred in the mesentery of the ascending colon of a man forty six years of age. It was the size of a lemon. Mauro believes it originated from aberrant germs of the

primitive intestine

The pure fibroma occurred in the gastrohepatic omentum of a voman twenty-nine years of age who, four years previously, discovered a small painless lump under the left costal margin. During the past year the tumor has grown rapidly and the patient had suffered from gastric disturbances, substernal oppression, and occasional dysphagia Two months before operation she had a crisis of epigastric pain accompanied by profuse hæmatemesis. At operation, a fibroma weighing 25 kgm and measuring 23 by 20 by 18 cm was found crowding down the lesser curvature of the stomach. The gastric cavity communicated with a zone of softening and ulceration, the size of an egg, within the tumor tumor, together with the lesser curvature, was re moved with difficulty on account of the adhesions and vascularity The patient made an excellent recovery Mauro ascribes the operative success to the ample exposure by a left paramedian incision and resection of the left costochondral arch by Mever's method which yields complete control of the entire left hypochondrium

He states that only 50 cases of unmixed fibroma of the mesentery have been reported. Some of these growths arise from the fibrinous coat of the intestine, a fact of practical importance as it may lead the surgeon to believe that he is dealing with a sarcoma

Two forms of mesenteric fibromata can be distinguished one latent and the other causing digestive symptoms. The symptoms of the latter are extremely varied and not characteristic. The final stage is dominated by intestinal obstruction. The

disgnosis is very difficult, if not impossible. The programs is always grave became by the time opera tion is undertaken the tumor is usually voluments or has produced such disturbances that the patient'

Formula communication in process and the state of the sta gastroocyane upament I or them normans) have been reported. On the bests of these cases Mauro tries to reconstruct the syndrome of a tumor in this location. He states that in its anteropositrior and vertical growth the tumor pusher against the spigratic wall, tiln the left hepatic lobe opward, and encroaches on the leaser curvature of the storach which is thereby choquated and displaced downward and to the left while the stormech as whole remains anchored at the cardia and pylorus In its lateral stouth the tunor may compress the bepatic artery portal voin, and ble ducts, although in none of the reported cases was there sandce ascites, or any reported designance. The cardia and adjacent part of the craophages are person anteropostenorly or one companies of the displacem, and resulting secondary metamobystal as in the author, case This is the first report of the particular patho seconds of megosophagus Manro believes that the pushing of the encardual portion of the onophages seating the dispurger is pathognomers up of

We th regard to the diagnosis, Mauro says that on account of its rathy the lesson is not thought of and has herer been recognized before operation and may dever over recognized october operation.

The timal diagnosis is tumor or Orst of the liver In fact, there is no enequirocal differentiation between the syndromes

The article is supplemented by mentgenograms and a bibliography M E MORE, MD

### GASTRO-INTESTINAL TRACT

Rammstadt, C. The Operative Treatment of Hy ministrati, i. 100 Operative Privatement of My pertrophic Stemosis of the Private in Infants (Die operative Beharding der Appartophachen Privatesiamose der Stengings) Speis & Chr.

Rammatadt precedes his discussion of the oper ative treatment of hypertrophic py knrc stepoch in falsate by discussion of the reponel and racel includence, the clinical pacture and symptoms, the pethological anatomy the stology the diagnosis, and the prognosis of the condition

In the diagnosis he trackes bittle importance to the demonstration of a tumor as this is very unitliable H states that at least the differentiation be thece being about and palestrolips. Dance standard or abould not be based upon it. On the other hand, he success for or manifestion, especially the technique of loss This consents of making an exposure a th the patient prope with the left and clevated t bring the pylorus fato more direct view and farring the contreat medium into the prioric canal by palpation trait macuum muo use pysosa tanas of passassas. The signs of hypertrophic priode stanosis are And sages or appetitionance present scenarios are a sharp cuiting off of the shadow in front f the

pylorus, definite displacement of the permanently Priority of the particular of absence of peristalist in the canal, and failure of the

The listory of the operation is interesting. It is the matory or the spannion in minimum at a known that the French always call the procedure the Fredet operation. Fredet first performed the extra ricos Heisecie Mikelica pricorplany but ki report of it falled to make a lasting impression on the medical profession and he later abandoned the method in favor of gastro-enterostomy Weber terired the procedure, but retained the transverse terrired the processing, but tensione the transformation of the old prioriplasty which Kanech had samed against became of the danger that the mecons foods may spod the results of the operation Thus, the greatest confusion prevailed among prins tricing and surgeons when Rasmaiedt fire per formed the simple extramecous division of the prioras in 10 ! This method was devised on the base of the chance observation, in case in which the transverse seture could not be completed, that the longitudinal incision gaped sufficiently without is

Alexaed treatment today still gropes with in entire resources with and authors appeared success the compelled to find the correct method for act case by experimentation as the differentiation be taren mild and severe cases is mecration (Deskin) It has the disadvantage of requiring consticution time (conservative treatment, seventy also days, operative treatment, forty days) and h endustred by intercurrent diseases. Replica to a quertion sales amt to 60 children's crinics revealed thet of spr fatalities, I y were due to an infection (grape, permunes, 27 scin use at an auction is seen

With the exception of several modifications not to be recommended, the operative treatment of prioric stenois tony consists of the Refer Rammandt operation Operation first came into

favor after the war following the good results of tance by Kinchur, Hele, and the author and after Eckstein well known report that the Schlosman Clanc operation was considered the

The indications for operation will always depend more or less upon the expenence of the individual pediatricias The patient accal circumtasces should be taken into consideration in every case at the danger associated with surpleal treatment in no grouter than that of the medical Contra-indications are presented I the child is monboad in sever infections the decision to operate about be made such carbon. If the hypertrophic pylone streams was he carbon. first develope to the third month operation may be delayed as the symptoms usually disappear in the

Rammatedt operates through increase because the low increase favors createring and postopera tire bernss. H. dandes only the stope Layers sharply. The deeper ones he divides down to the inneres like blunt pointed lancet is order t road injury ( the disodenium Good vision with

perhaps the aid of magnifying spectacles (Kirschner) is necessary to assure division of all of the muscle The danger of hæmorrhage is the only vulnerable feature of the operation The author believes this danger to be less with blunt than with sharp dissection If the bleeding does not stop after two minutes of sponge pressure, fine suture-ligatures should be introduced or a bit of omentum applied. As a rule Rammstedt prefers ether anæsthesia, but in the presence of lung infections he uses chloroform anæsthesia While local anæsthesia is widely employed by others, Rammstedt apparently disapproves of it as usually it is inadequate and it favors shock Good pre operative treatment consists of infusions of a solution of glucose or sodium chloride, gastric lavage with sodium chloride solution or tea, and the prevention of chilling An adequate number of experienced assistants and a special instrumentarium are required. The postoperative care by the pediatrician is often the more difficult task and should be carried out according to Eckstein's principles

Of 143 postoperative deaths, 58 were due to injuries present before the operation, 35 to grippe and pneumonia, and 50 to the operation (peritoneal infection, wound suppuration, prolapse of the viscera, postoperative hæmorrhage, injury from the anæs thetic, intestinal obstruction from volvulus, adhesions, or inadequate myotomy) It is by no means true that persistence of the explosive vomiting is always due to madequate surgery, it may be of central origin (Eckstein, Adalin) or the result of too rapid reunion of the margins of the incision or the portio-like invagination of the pyloric muscle into the duodenum which was demonstrated histologically by Noetzel and cannot be reached with the knife without opening the duodenum. It may be due also to dilatation of the stomach with kinking of the duodenum over the hepatoduodenal ligament.

Comparison of the statistics for 1929 and 1933 which Rammstedt collected by questionnaires shows that the number of operations increased from 27 to only 31 per cent and the total number of deaths decreased from 18 to 10 7 per cent. The medical mortality fell from 16 to 9 per cent and the surgical mortality from 22 5 per cent to 14 4 per cent. The total number of treated cases of hypertrophic pylonic stenosis increased from 1,824 in the period from 1919 to 1928 to 2,432 in the period from 1929 to 1933. This indicates that better diagnosis and earlier adequate therapy were the chief causes of the improvement.

In order to compare the surgical and the medical treatment, the Duesseldorf Clinic carried out the well-known experiments in which, prior to 1928, 92 cases were treated by purely conservative measures with a mortality of 18 8 per cent and since that time 110 cases were treated by exclusively surgical treatment with a mortality of only 3 6 per cent. These results speak unconditionally for operative treatment even when they are compared with the good results obtained by Ibrahim (81 cases treated in the

period from 1929 to 1933 with a mortality of 6 per cent), especially as the shorter period required for treatment and the lower incidence of intercurrent diseases constitute further advantages of surgery (Sievers) Leo M Zimmerman, M D

Bonney, V The Functional Derangement of the Intestine That Follows Abdominal Operations Lancet, 1934, 227 1323

Operations that open the peritoneal cavity or, without opening it, involve the tissues in juxtaposition to it cause a derangement of the intestines characterized by general or regional cessation of intestinal movement and a disturbance of the mesentence circulation As a result, the gas balancing mechanism is upset and gaseous distention ensues. If the motor and vasomotor phenomena are marked and prolonged and high grade distention occurs, the venous return from the intestinal vessels suffers additional retardation due to the stretching of the mesentery and the increase in the intraperitoneal pressure, the wall of the distended intestine becomes paralyzed, and Linking occurs at many points, producing a series of mechanical obstructions obstruction to the flow of blood through the mesenteric veins is followed by exudation into the lumen of the intestine which is most marked in the section where the venous congestion is greatest and the fluid exuded undergoes a change whereby it becomes

These events are not specifically related to operative injury or exposure of the intestine, as they may occur after operations which do not open the peritoneal cavity. This fact and the fact that the operative area is very commonly at a distance from the area in which the phenomena occur can be explained only by the hypothesis that the motor and vasomotor disturbances in the intestine, which are fundamental to the derangement, are caused by an agent generated somewhere in the tissues traumatized by the operation. The evidence available suggests that the production of this agent has some relation to partial interference with the circulation.

Gardner, C. E., Jr., and Hart, D. Anomalies of Intestinal Rotation as a Cause of Intestinal Obstruction Report of Two Personal Observations, Review of 103 Reported Cases Arch

Surg, 1934, 29 942

SAMUEL KARN, M D

Gardner and Hart state that in the practice of abdominal surgery a clear conception of the various possibilities of derangement of internal rotation and fixation is essential. Following a description of the stages of normal intestinal rotation and the possible abnormalities in each, they report 2 cases of volvulus of the entire mesentery presenting symptoms of chronic duodenal obstruction and review 105 cases of intestinal obstruction incident to abnormalities of intestinal rotation which they collected from the literature. Of the latter, 48 were cases of volvulus of the entire mesentery, 10, cases of obstruction of

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the transverse colon secondary to reversed rotation and 7 cases of obstruction of the modernm by hormal intention further volume of the entire meeting may came symptoms of acute intermed described in the majority of cases the picture in that of sents, chronic, or intermittent obstraction of that or active, current or internations construction to the decoderam below the ampalla atthout the small to ourseans serve the emposes a many toe seems. The operative treatment for each (the of operaction is decreased

### Elman, R.: The Design of Studies Definition of the Actualy Bittended Rowel in Late Low Intertu-nal Obstruction. As J. Say, co.t. M. 2007. Acutary Material Bowel on Lane and American State of Sarg 1934, 16 416.

Elman reports in detail four cracs in a bich death octated repairs in octan rout cases in a most ocean octated suddenly feveral bount after the February octated by the control of the control octated by the contr occurred successive several ocurs after the fraction obstruction. H. States that in the compand of many surfaces the letter perior in the cases is tabled pseudoton phy the pseudoh post of the taxe a rapeo oscilpass of the second second in taxing the contents from the obstructed intexting His tone concerns from the communication from own occurs from search that overstooning the make and death following the motion roled of intethird opsitication are dute to the foatettak of the intrainterinal presente which, when high enough to later

for with the blood for through the gut, is an one into the towor two tarrows the get, is an officient barrier between the freed contents and the carrelation. He therefore recommends slow deflation or the distended box of to allow re-adjustment of the to the material observe the same resultations as the circulation and prevent the effects of the ripid circulation and prevent the energy or too rapid changing managed according to an or one Patient recovered Heacock, C. H. Calcification in Intestinal Tuber

colour. An J Resident of total and Following bales (because of the role of calcium

restoring ones togethere or the rise or caseman in tuberculous, the whore states that although cale to intercept the array state that arrays takes to be interested to be increased by mean tuberculous to be though a common in old tabettalous for whether in infactions of other types it is the Common sites nusciones or occas Opea in state Common street of calcurrons deposits in tuberculous foci are deto careacous caposate in intercentaria noti are on-Actions Apparetty continuous occurs and in primary lemon of intertinal inherculous 43 well as in the abdominal lympa ginds which are affected accordarily Although Hercock has been enable t food sections of a presence in the location, he has food sectioned sections of calculations appare total pattern many step to cantilate apper early in the while of the occurs in four case in which the charge of the occurs in four case in warranted the theorems of interior particular warranted the theorems of interior in the occurs. astranted the quations of interpretarions manual Astronom the material or informer months and rocutemograms

pocusionograms
Heacock acribes the infrequency of such deposits
to the fact that most cases of intential tablerolous
and the almost acribes two without most table to the to the fact that most cases of minimum importances are of the ulcerative type without caseador. He states that at times the sufection penetrates the case of the state of the static coat at times one direction penetrates the wall or toe intentine and I betwee any comes of the peritoneal surface. The chadows in the recent the beautiful an increase and the survivors in the country beautiful and the country and the country beautiful and the cou the and that the abbeniance of capture of the abbeniance of the abbniance of the abbnianc Formers to tobercies which, in some instance, have poments morrors which, in some measures mays confluent Heacock reports one to show

the site of each deposits. As none of the cases report the six of seen deposits. As home of the case report set came to operation or satisfact pathological stable.

Accept Harrow, M.D.

Rankin, F. W. and Martin, W. J. J. Diversion of the Senail Bowns. Ass. Sery. 514. 00. Directiculosis of the small bowel is reach iem fre quant and causes much less trouble than devertice. Districts done and the color. Directicalors of the small board ions of the colon. Directivations of the small bound of the than that occurring to the decidence and the above forms of the form of the form of the colon of the

the boyel is largered surely must be considered a function of the following surely sur marticulty Although surpoid interventive season warranted occasionally, Careful medical memory appears to be the bar proceeding as a rule 1 DESCRIPTION PROPERTY IN D. O. S. O Joyce, T. M.

#### den Jany 934 00'949 Tumors of the Small Intertion

While tumors of the small bowel have als ye White treated of the same over the same of said famors have been published recently and some of them have cred promised receiving and make a disided spectroom camed by the reoptame is value. and in templacing has instanced by the qualitation and a before of trace of the small blacks for reging many types Ratherd found the factions of malament, to be 40 per cent. Cattracts of the decident has been much discussed of late. It a recognized that the majority of currounts of the small infection occur in the disclosure. On the basis of their point of origin, decoderal currents are surveyed in the pre impulsive the ampairing and the accordance are surveyed in the pre-impulsive the ampairing and the surveyed in the surveyed and the surveyed organism in the pre inputery toe suspensity and the prescribed types. The greatest number occur is or about the ampulls of \ (as The next load one in mon site of cercinoms in the small intestme is the

The symptoms of tumors of the small interime the disc charge to operate or the same continues as are one comprise to the other later transfer of the companies of the compa occurs the symptoms of total obstruction ration occurs, the symptom or total contribution interest, the symptom occurs of the course in about 1 per cours of cases of times of the course in about 1 per course of cases of times of the course in about 1 per course of cases of times of the course in a course of cases of times of the course of the course of the cases of times of the course of the cases of times of Cent of cases of times of the small intensis. Hereof, the greater press or encourage, is another facilities in the chart and in the diagnosis of such monors is \(\frac{1}{4}\) to examination.

Joyce reports nine cases of tumor of the soull bowed. In the first case a rapedly growing science as the science of the first case a rapedly growing sciences. was found in Mickel directiculum Is the second mes source in Asserting distribution as the second interesting the size of the the thumb in the hunch of the dutal thems. In the the times we because in our many many to the times was being papillary advanced of the control and the control the joint in the fourth, large intrangers and the southern in the fourth, large intrangent and polypoid facurations of the large intrangent and full fact of the large interactions was somewhat and independent advantage in the fact of the fact o extraction was rough to proceed or to proceed with the least La the sixth, highly neighbors

carcinoma was resected and the patient was still well at the end of thirty months. In the seventh, there was an annular adenocarcinoma of the third part of the duodenum with abdominal metastases. In the eighth, an annular carcinoma developed in the wall of the jejunum about to cm beyond the ligament of Treitz and a large metastatic retroperitoneal tumor was found behind the third portion of the duodenum. In the minth, operation was refused and autopsy two months later revealed a primary carcinoma of the ileocæcal junction and bronchopneumonia.

Attention is called to the wide variation in the histories and the frequency with which the diagnosis is missed. The author states that the possibility of a tumor of the small intestine should be considered in cases of unexplained gastro intestinal

bleeding and intermittent obstruction

JOHN W NUZUM, M.D.

Steinberg, M E, and Starr, P H The Factor of Spasm in the Etiology of Peptic Ulcers Arch Surg, 1934, 29 895

The authors cite the fact that Exalto, in 1911, was the first investigator to develop a technique which regularly produces chronic ulcers of the jejunum following diversion of the duodenal contents. Winkelbauer modified the Exalto operation by stripping for a distance of from 15 to 25 cm the longitudinal and circular muscles of the jejunum which was anastomosed to the stomach. He reported that two dogs subjected to this procedure survived for thirty-four and seventy days respectively without developing the usual ulceration. The authors repeated Winkelbauer's experiments on a

larger series of animals

Of seven dogs subjected by the authors to the Exalto operation in which the jejunum is anastomosed end to end to the pyloric valve, all developed acute or chromic ulcers during a survival period of from five to sixty-nine days. With the use of these animals as controls, another group of dogs were subjected to the original duodenal diversion type of operation and to stripping of the longitudinal and circular muscle of the jejunum for a distance of about 10 cm. However, beginning at the pyloric valve, a narrow strip of muscle was left at the mesenteric border for preservation of the blood supply. In addition, a small circular part of the duodenal muscle near the pyloric was left because the jejunum was anastomosed end to-end to the pyloric valve before the stripping was done.

Ten of the latter group of animals survived for from seven to seventy-six days. In none of the ten animals in which the jejunal musculature was stripped for three fourths of the circumference of the bowel was there any mucosal ulceration. However, two of the dogs had small chronic ulcers near the pylonc valve where the musculature remained intact, one had a large ulcer where the muscle layer of the jejunum began its normal intact course, and one of the dogs with a small ulcer near the pylorus

had two small typical chronic ulcers in the mucosa where the muscle layer began its intact course

Of another series of dogs in which the small intestine was anastomosed to a Pavlov pouch and the circular and longitudinal muscle layers were stripped for a distance of 10 cm distal to the anastomosis, six survived for from eleven to one hundred and fifteen days. In none of these animals did an ulcer develop where the muscle was stripped

The findings of Boldyreff, Burget and Steinberg, Elman, and Cannon suggest that acid chyme of a certain concentration causes the intestinal muscles to contract. The contraction is supposed to hold the acid in one place until it is neutralized, thereby possibly causing localized trauma to the mucosa with resulting inflammation or ulceration. The inability of the intestine without muscle to contract and thereby cause retention of acid chyme is suggested as an explanation for the absence of ulceration in loops of bowel stripped of musculature

In view of the theories of von Bergmann, Cushing, and others on the relation of neurogenic factors to gastroduodenal ulcers, the authors believe that their findings may be of significance in the etiology and pathogenesis of gastroduodenal ulceration

SAMUEL J FOGELSON, M D

Kantor, J. L. Anomalies of the Colon Their Roentgen Diagnosis and Clinical Significance A Résumé of Ten Years' Study Radiology, 1934, 23 651

This article is based on 2,000 cases in which the large bowel was studied roentgenologically. The author divides anomalies of the colon into the following groups redundancy, non-rotation, hypodescent, hyperdescent, hypofixation, and hyperfixation.

Redundancy of the colon was found in 18 per cent of the cases reviewed The chief symptom of the majority of the patients with this condition was

constinution

Non rotation of the colon was found in only o 2 per cent of the cases reviewed. It was usually associated with non rotation of the entire intestinal tract and was asymptomatic.

Hypodescent of the cæcum was found in 6 per cent of the cases It was not characterized by a syndrome However, the author believes that it is associated with an increased tendency toward the

development of appendicitis

Hyperdescent of the cæcum was found in 18 per cent of the cases and appeared to be definitely associated with discomfort in the right lower quadrant of the abdomen, headache, and vomiting The author describes in detail the roentgen technique by which it is possible to determine whether the cæcum is abnormally high or low

Excessive motility (hypofixation) of the colon was found in 4 per cent and hyperfixation in 20 per cent of the cases reviewed. Kantor states that the former is frequently associated with a high position of the cæcum and is a prerequisite for volvulus and intussusception. Hypofixation of the cæcum alone is

associated with increased colonic irritability Excesare fration of the coice is associated with a low position of the cocum, duodenal hands, and irritability of the large bowel

Unless a colonic abnormality results in mechanical obstruction, freatment should be conservative and symptometic. T BAYRORD JOYER, M D

Dall'Aqua, V., and Valuechi, R. The Roenigen
Appearance of the Mucass of the Color in
Pathological Conditions (f. appetrs radiopsis Parinosopicas Canastrones (1. aspecto incomença-delle pracosa del colon negli stati patologica). Rassal

This article is sequel to a report on the roentgen appearance of the normal mucous membrane of the colon. The authors divide lesions of the colon late main groups, non-specific and specific cubits, and manu groups, mondation in these groups separately

### MOM-SECTATE COLUMN

Acute collies with mild changes in the mucese. In this condition roomigen examination shows an focuses in the size and an brownel disposition of the folds. The folds are apparently learn infil trated, iem chastic, and not smally flattened. The comma may or may not be eliminated completely comme may or may not be emmassion compountly often there is a granulated, taploca-bis appearance of the surface

con military
Acute colitis with serious che per in the mineria. In Actual county were revuent case for the set sensers and this condition there is great variation in the path-this condensal anatomy and X-ray findings. The bertuin mak be debouted in transfers times any mailting not be deposited in transferred may suggest the dra era in a chest of drawers, freshly harrowed soil, lice, or button like formations. Most of these forms stop or bettern men commences server or more morns. The authors discuss them on the basis of the pathological anatomy and the fladings in the surgical spectroers

Chronic caluts In this condition there is consily evidence of atrophy of the mucosa with reduction in the age and number of the folds. The folds may show a longitudiaal disposition. At times the colon has the Ppearance of an mert tube and 1 other times shows defects due to nodule-like hypertropine messes with occasionally thick transvene bands

#### SPECIAL COULTS

Takercal u In the ulcerative type of tuberculast of the colon the mucosa seems severely conpromoted, but as a rule only in the right color. The places sometimes remain somewhat conserved but here lost their normal contour. In the fibrophase may use their meaning controls are the nonspirate value of the colors the predominant A superiores changes result in their man of the all and reduction of the sers of the homen. The internal relief is almost alway markedly altered or internal fener is account away contractly solution to

Last In this condition there may be a fixed and rigid stenous of an inflammatory type Actionsports In this condition there are no characteristic changes

In addition the authors describe briefl and above by rousi proofers as some of the fadings in cases of by togen-group and some or the manage in case or colonic diverticula, diverticulate, polyposa, make

In the discussion they emphasize sepenally the in the uncommon they the ment programs on the basis of the physiology of the bone The article is followed by a rather extensive bible. OFTEDby

David, V. G. The Pathelogy and Trestment of Blanding Potypold Tumors of the Large Board

David classifies polypoid tumors of the large board Taylor crassion posyless running or the safe roots of described but sometimes that ( ) publicants or

villogs tumors (3) multiple polypons lavalying the visions tunous (3) manages prayment naturally conditions color (4) inflammatory polypa, found in amorbic dyscatary and alcorative colins, and (s) carcinomate growly resembling that adenomate or

The most vital question to be answered concerning these tumors is whether the benign appearing such equous or bubillous is a beautifured senger accounts to preparation is a premangered.

Erowth The statement is frequently made that all sequences and papellomate of the large board and eventually become malignant. This is based in part on the overwhelming evidence of the development of carcinoms in nearly all cases of maltiple polytoes, in which the entire colon and rectum are studied with polyps of this type, and in part on the lamb posicial biocarance of sails craft manner on one water basement membrane in papillocations temore which

This article is based on fifteen papillomata ins arone is based on intern paparonaria t cuty-free perhancilated polype in adults, and more than fitteen polype in children According to the histological criteria laid down by Feyriar only one polyp was maignant. David states that apen sol, kines existence of elegation interest series real or industrion is noted on the surface or at the base of the polyp it ment be considered evidence of mahanancy and the tumor should be treated as malignant neoplesm. The most suportant bletological evidence indicating malignancy is destructive invasion of the epithetism through the base ment membrane and muscularis neacons of the

The pedanceleted type of adenoma, the pedicie of which concerts of normal mocean stretched out by the tug of the tumor occurs at all ges and in all portions of the colon Early endeaned degrees-tion of tumors of the type is rarely observed although the acoplasms re frequently found in the colon which is the site of well-developed card-The papellomata or villom temora, which are not, spouge like, borescent acoplasms, bleet casily and produce a large amount of macus became of the large umbers of goblet muchs scoreting calle present. They occur assully in adult his oath present. They occur assully in adult his Biopsy of seprencial portions for the determinance of malignancy a unreliable. If induration is present

at the base, the tumor should be treated as malignant and the bowel resected

It is generally agreed that when multiple polyposis is present and the colon is studded with polyps of all types, preliminary ileostomy followed by graded removal of the colon is advisable Occasionally, carcinomata grossly resembling large flat adenomata or papillomata are found in the colon In such cases a palpable induration is discovered at the base of the tumor and in the colon there may be a small area which shows puckering of the bowel wall It is at this point that invasion of the bowel wall is taking place. Viewed through the proctoscope the lesions may appear benign, but as a rule their surfaces are ulcerated. It is most important to remember that all of the polypoid bleeding tu mors of the rectum and colon must be regarded with suspicion as regards malignancy even though we know that many of them are benign and remain benign for relatively long periods of time

JOHN W NUZUM, M D

### Bowen, W H A Study of the Etiology of Appendicitis Guy's Hosp Rep, Lond, 1934, 84 489

The author bases his conclusions with regard to the etiology of acute appendicatis on clinical observations, pathological examination of surgically re moved appendices, and a review of the literature He believes that acute appendicitis starts as an infective catarrh, that an infective catarrh is the first stage of every case from those of early congestion of the mucous membrane to those of extreme degrees of gangrene The condition is not due to enterogenous or hæmatogenous sources The onset of acute appendicitis in the absence of a stercolith or obstruction is difficult to explain. The acute changes are probably the infective superadded changes grafted onto and obscuring the original catarrh The gravest manifestations of the disease result from the mechanically irritating action of a stercolith

EARL O LATIMER, M D

#### McKissock, W Hæmaturia in Appendicitis Lancel, 1934, 227 1389

This article is based on fifty cases of appendicitis associated with hamaturia. Seelig, in reporting three cases, attributed hamaturia associated with appendicitis to the following factors (1) toxic nephritis with circulation in the blood stream of toxins produced by the acute appendicitis, (2) direct involvement of the kidney or renal pelvis by an inflamed appendix lying in a retrocæcal position, (3) direct involvement of the ureter, and (4) direct involvement of the bladder by an inflamed appendix or a retrocæcal abscess

McKissock believes that appendicitis may be a symptom of a general disease of which acute nephritis also is a symptom or complication. One of his patients presented both acute appendicitis and nephritis as complications of a streptococcal infection of the throat. He states that the development of toxic nephritis as the direct result of acute appendictions.

dicitis still remains to be proved Confusion is most likely to arise in cases in which hæmaturia occurs in association with signs and symptoms otherwise suggestive of acute appendicitis. When red blood cells are found in the urine, a diagnosis of pyehtis or urinary colic might well be made and the presence of acute appendicitis overlooked McKissock reports a case in which the blood came from the ureter. He believes the bleeding might have been due to congestion of the veins of the ureter caused by the external pressure of an inflammatory exudate or to a ureteritis

John W Nuzum, M D

#### Gile, J. F., and Bowler, J. P. The Management of Perforated Appendicitis J. Am. M. Ass., 1934, 103 1750

This article is based on oor cases of perforated appendicitis. The authors discuss the management of 3 types of the condition (i) gangrenous appendicitis with local peritoritis, associated usually with early perforation, (2) appendiceal abscess, and (3) perforation with general peritoritis

In all of the cases reviewed the treatment was based on a program of immediate operation following a positive or reasonably well founded diagnosis of appendicitis The authors are convinced that immediate operation in early peritonitis may prevent the development of diffuse peritonitis which has a considerably higher mortality, that appendiceal abscess is a lesion which is originally, and remains throughout its duration, restricted to a localized process by the morphology of the right lower abdomen and does not call for urgent measures, and that late general peritonitis has an enormous mortality They state that, except in the cases in which the surgical risk is obviously entirely hopeless when the patient is first seen, there will always remain, in this group, cases in which it will be difficult to arrive at a decision regarding delay and pre-operative treatment J THORNWELL WITHERSPOON, M D

#### Carlucci, G A Abdominal Wall Defects Following Appendicectomy Ann Surg, 1934, 100 1177

The author reviews 700 cases of appendicitis in which operation was performed through an incision in the right lower quadrant of the abdomen. All of the cases were followed for at least six months. In 83 (12 per cent) there was some postoperative abdominal defect. The defects ranged from simple weakness to hermia involving the entire length of the incision.

Defects were approximately twice as frequent following a split rectus incision as following the McBurney incision, and about twice as frequent in males as in females They had apparently no relation to postoperative respiratory complications

In cases of appendiceal abscess in which the abdominal wall was not sutured or was approximated only loosely, the incidence of incisional hernia was high However, fæcal fistulæ per se did not seem to produce defects Pregnancy and parturition, even in cases in which drainage was established, appar-

ently did not cause the includes to give war Defects entry and not came the inclusion to give war Detects

were most common in cases in some visitings was established. A fairly large number occurred the in cases in a high the a ound became infected It was found that a cakacase and even beints dispers in time and that bernis may develop

transport in time, and trust serious may be endownly a year of more after the operation. Piccinino, G

ctubos, G. Sisterlin's Jump and Hyperplanete.

Intentional distributions (Salto de Stiertes

Colon Extransia perphasica) Resistance 1824.

Resistance 1824.

The number cates his previous publications on inherentees with apoctal reference to the differential content of the content of disposes of letions of the right color. H. states that it must not be essured that all leafons of the right colon to tobercolous patients are due to tubercuiosis

He rayers the cannilal features of hyperplastic the reverse of the intestines and thermore relationtabermoses of the intestines and discusses relations as in part of the condition to primary local in pathological anatomy, and the usual clinical history, logical anatomy and the most cineral entery party. The commission of the dominantion of

Y my cummation after the administration of the bartium by mouth usually shows aftered filting of the diseased bottom. The bartium may jump over the mountain may may may may make the mountain of the mountain cheesed portion 1 to beam may Jump over the diseased segment completely or all it only partially and irreputarly When the opening medium is given and interplanty. When the organis merimum is given to greens, complete filling of the discussed portion in office in moments. The expectation of the discussed portion in organization and the expectation of the expectation often impossible the segment trade to empty in contents rapidly, and carefus too and obstruction, also with various insufficiency are common to be and the second to the second terminology.

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The former tennected of the times 100 contours the contours of were irregular many was poor and changes in the ficket were seasily distinguished. Niche like forestthese was warmed and the state of the walls of the alicing somes, and absence of muscula contractions

in decreasing the differential diagnosis, Partiatno in uncoming the operative constraint of the circum cata treatas experiently or responsive or the treatment of the sight deformities which are seen occasionally to chronic Ppendicitie

Theywar, T. E. H. Marphe Hassocritesisk Proceedings of the State of State o

The author discusses sample his morrhage proc the auton uncomes super memoritorpe pro-titing and proctongmouthing on the basis of twenty crass. He states that the condition may occur (any cases, the states care the common may occur it any, as not frequent to the young. He come is manufar mechanism and attribute in one young the common way in the common way in the common way in the common way in the common way. to mentary commences and according and course on the course fertiles and seems ( Style; lithille, and associated the dearthca

associated the charmons
The condition runs very protected course and
has a proconnect tendency to recer Periodically
and the condition runs of the course of th an acute febrile onset, in which

the patient may be intericated, it does not after the Seneral condition to any marked degree The chief sign is bleeding or defectation or inde pendent of delecation.

Routher physical examination dischars little ab-According to the temperature is country acres acres for cases (two of the in-cuty reviewed) is to in her cases (two or the tarmy reserver) of a somewhat elevated in the early stage. The confrience

somewast exvated in the early stage. The communication not cause any considerable degree of aneste tes not cause any consecutants (series or annual). The rectoscopic picture is characteristic, but of the constraint factors in the contraction of the co Microscopic extension as two concerns over m cases as which the condition has been present for many year Microscopic extension for disclose interest in the condition of the con Alteroscope externas non concesso micros interes, matter of the marcosa with marked dilatation of the blood seasons and free parametrizate constance or to being practically the process and the latter from the latter from the finding the process of the latter from the distinct the surface references to the latter from the latter quebel batts of the actri axil por resona re-

The dames is probably of specific infections origin Its course is benign a course is beenin Treatment with rectal infusions of a Attentioner with retriet intronous or a per com-solution of yatree has yielded food results, but men sourced or a long time because of the market tendency of the disease to receir

Milliane, R. T. C., and Morgan, C. N. The Sergical Asserting of the Anal Carnet, Lancer \$44, 27

Although, today incontinence of faces after sur Authorities, totally incommence or term ever ever such fall treatment of small faithle is rare fallers of the has treatment or some some to have some or the father of the sales of coordings. Open are assumed to some specimens of the source specimens to their street observation as all no sources specimens to their street observation of the sources of the source o tempts anywayed. In some cash the straton and over more controver, your six analysis travers and some more controver. remain universal in seaso case to surgeon we executed in discovering the main track of the fortie into the sized cases; to others pe pas existing to safe this the scale case; or owners we have strong as more matthing the amount of the specificater and that can be extractly as the strong have been as the strong have been as the strong have been considered that the strong have been considered to the strong have been consider extinating the amount of annale that must be preserved for fraction and continues that make or see servor to reaction and continence for anison therefore persent a detailed anatomical description

The external sphineter of the area is triansfar Are external spaincer or the same in attacks which, together—the the pubmered in portion of the leasted am forms a stood muscular changes to me events and mine a strong moreon comments the length dead muscle of the retters the encurous the exegutations makes or the recises on internal subfactor and and, below this level, the and constitute appropriate and apply only the arts, or asset of constitute manch constitute of three portions the more; of buch may be an expansion. These portions are the spilicum and t separates to see portions are the spanous of externs subcitances, the spainter and externs

extreme processing to experience on current superficials, and the spanners and current po-facility for the sale third portions are sawing consistent and attacked to the corey. The smooth resources are attacked to the corey. The smooth portion is elliptical and tisched to the corry for two in cuspons; and traces to us to the first sport of the first portions by differentials sport of the conditions o principalities of the longitudinal market of the re-time the divisions of the separation of the re-

can the care carantons of the apparamentary the anal canal alone, the longitudes! immele, and the mirral sphiarter and names, son the microsi sponsors are The spainted an externor subcritors is at sorois based of muscle directly endreling the lovest

portion of the anal canal It is easily seen and felt beneath the skin and lies in the same plane as the internal sphincter from the lower border of which it is separated by an annular band of fascia, the anal

intermuscular septum

The anal intermuscular septum, which is the termination of the longitudinal muscle of the anal canal, is attached to the skin of the anus in the region of the mucocutaneous junction and is of importance in disease and surgery of the anal canal. The constant position of the main tracts and openings of fistulæ into the anal canal shows a relation to the septa of the longitudinal muscle. Suppuration spreads along these tissue planes. The attachment of the termination of the longitudinal muscle explains the presence of the sulcus in interno-external prolapsed and thrombosed piles.

The sphincter am externus superficialis is an elliptical muscle lying between the subcutaneous sphincter below and the sphincter externus profundus. It is the only layer of the sphincter am externus attached to the coccyx. It inserts into the

perineal body

The sphincter an externus profundus consists of an annular band of muscle passing behind the rectum. Its fibers cross above the rectum to the opposite side, where they are attached to the ascending ramus of the ischium, representing the transversus perinei muscle.

The levator an muscle may be divided into three portions, the puborectalis, which is of most importance in rectal function, and the iliococcygeus and the pubococcygeus, which have no physiological in-

fluence upon the rectum

The puborectalis portion of the levator am arises from the symphysis under cover of the pubococcygeus. Its fibers pass backward and downward around the lower and lateral aspect of the rectum, meeting the fibers of the opposite side behind the anal canal and forming a powerful sling to draw the anorectal junction toward the symphysis pubis. Its lower border is intimately attached to the external sphincter ani profundus. Between these sling fibers and the anal canal are the downward prolongations of the longitudinal muscle of the rectum and the sphincter ani internus.

The sphincter am internus is a tubular muscle encirching almost the whole length of the anal canal It is a direct continuation of the circular muscle wall of the rectum. This muscle is not the sole guardian of continence. Continence depends upon the composite anal ring. The inner surface of this ring is covered with mucous membrane which is separated from the muscle by the submucosa in which run the

hemorrhoidal vessels

Identification of these muscles can be made with the palpating finger. To treat anal fistulæ successfully the surgeon must be skilled in palpating the anorectal ring. The anorectal ring is a fibromuscular band composed of the upper portion of (1) the internal sphincter, (2) the longitudinal muscle, (3) the puborectalis, and (4) the external sphincter and

profundus muscles If this ring is cut, loss of continence will result, whereas when even the narrowest complete ring of muscle remains control is preserved All of the anal muscles below this ring may be divided in any manner without causing loss of control

An anal fistula is the contracted cavity of an abscess which has failed to heal completely by third intention. There are usually an external opening, a main tract, and an internal opening. Many variations in the form of multiple subcutaneous secondary tracts and openings occur. The external opening is usually visible. The main tract may be followed with a fine diagnostic probe. The internal opening of a fistula is more easily discovered by light palpation of the anal mucosa than by inspection with the proctoscope. For safe surgical treatment, the relationship of the internal opening and main tract to the anorectal ring must be determined by palpation upon a probe passed along the tract. It should be noted whether they he above or below the ring.

For the cure of an anal fistula it is necessary to convert the fistulous tract into an open flat wound by incising along the whole tract and removing the

overhanging edge

In the past, the main problem, the relationship of the fistulous tracts to the anal musculature, has been obscured by a complicated classification based on the shape and direction of the subcutaneous tracts The following classification is submitted as

being simple and practical

r Subcutaneous and submucous fistulæ These fistulæ are superficial to all the sphincter muscles. In the treatment of the subcutaneous fistulæ the whole tract is incised and the overhanging skin edges are excised. In the treatment of the submucous fistulæ the mucosal roof is destroyed by strangulating higatures because the often tortuous tracts he in close relation to the hæmorrhoidal plevus in the submucosa which may give rise to troublesome hæmorrhage if incision is done

2 Fistulæ with their main tracts entering the anal canal below the level of the anorectal ring

a Low level anal fistulæ usually enter the anal canal along the anal intermuscular septum between the subcutaneous external sphincter and the lower border of the internal sphincter am. There may be a submucous extension of the main tract. The whole tract is laid open by incision or combined with strangulating ligatures and the subcutaneous external sphincter is divided.

b High level anal fistulæ present a less common and more difficult problem. The main tract usually enters the anal canal in the posterior segment just below the anorectal ring. The position and relationship of the tract to the anorectal ring must be accurately established. If the relationship of the tract to the anorectal ring cannot be determined definitely the two-stage operation may be performed. However, it has no other advantage over the onestage operation. If an intact part of the anorectal ring lies above the probe inserted into the tract, section of the whole muscle bundle lying below the

probe may be done This all probably sever a part processary on come a mass processory sever a part of the drop, all of the superficial, and all of the subor use users) and or use supermune, and an or use supermuned and as the correpooding related parts of the internal sphincter and popular interior parts or the management and conglined and impactes. Thus a satisfactory flat gramm angurous months are a manager of the same lating would is arrescally obtainable and inconti-

Unions the relation of the anorestal ring has been Union too reation or one anatotic may not seen attablished previously light general anesthesis is to be preferred to spans! anesthesis became in the to be presented to spanse assessment to the first the muscular retention is so great that the

anorectal ring is not paipable

Anal fatule with the main tract or same extending Annuments was the main tract or since extending the above the abovectal ring are of three types. Those of fair type, which are most difficult to heat, are charman type when are more many according to the rectum above the according in those of the second type, a since extends above the anorestal ring but does not pure criscos store use summing our uses use pene-trats the textum. In those of the third type there that the recently has those or the timu type there is a sinus like that in fattile of the account type and as a same may come in measure or the eccountrype and, in addition, there is an offshoot opening to the rec tum below the anorectal ring

Anatomical considerations prevent the conversion Anatomical consociations prevent the conversion of such deep tracts in the inchoractal forms into a flet wound which would assure healing and continence wound which would anothe meaning and communicate five surgeon must be satisfied with futtering the tract posteriorly toward the coccys. I retard the re-formation of states by rapid sidn besing all of the minimportant skin floor of the inchineral form toe mumportant sam neor or toe secunivers; normalized normally removed so that a wide funnelshaped wound extending from the foor to the roof

The internal opening into the rectam in fatials of the first type should be disreparded. As the depth of the wound fills with granulation thems I usually closes Later when the wound level is well below the answertal ring the sphincter muscles below the anorettal ring can be cut afrely Thea, the inner wall anorties may be seen to the seed of the wound will also be suttered and bearing by second intention will be hastened. Routine pathological examination is urged for this type of annu or fistule as I sometimes reveals toberculous as the J LOWIN KINDSCHOOL, M D

#### LIVER, GALL BLADDER, PARCREAS, AND SPLEE

Ivy A.C. and Berth G S Applied Physiology of And the Estrahepatic Billiary Tract. J Am 11 Au The gall bladder has three types of activity

absorption, secretion and motor activity In the process of beorption the gall bladder concentrates the hepatic bile that enters it from four to centrates too persons one countries are a likeline to the likeline which is likeline as it haves the hver is slightly aridified

Because of its concentrating function, the gall parties in the constant of the parties of the parti casting though aman, and sarge capacity as a able to store the entire twenty four-hour output of

opens that The gall bladder with acute inflammation of its and the sea necessary with a party minericans on the party of the sea of the

After subsidence of the acute inflammation, concercates autonomic or the acute immunication, concern tration and evacuation may be resumed, ber if fibrode results, concentration does not occur.

Cholesterpes does not interfere with the concentrains activity or evacuation of the sail blocks training neutring or wrateranted of the grat obscored with a moderate or every

cholecystitu

neceystatus W hen the gall bladder is normal at secretes a mewhen the gain obtains in matter a surround at the rate of about so c cm in a period of country for home When it is scrietly infuned considerable quantity of Himpel and sometimes blood-tinged field is formed by the mucose.

When the common duct is obstructed for from many the common unit is constitute for non-teries to fourteen days green find a found in the dects if the grill bladder is normal and white field if the gall blacker is functioniess. White bile, which is the gast manner to can remain a form of the greatest concern to surgeons, is found ander on the factories conditions () common duct obstruc-tion with inactionless gall blacker () secreties of the liver gainst passaure in the absence of total of struction (5) toric lepatitis, ad (4) high price accepting infections It is associated (it a tone or generalized hepatitis In this condition dextros generated as fr favors the activity of the liver

The motor activity of the gall bladder is of to types (1) rhythmic tonus changes and () tonic onopen (a) and the growth traction of the graff bladder as

It is obviously agraticant that the power of the at an overseemy segmentant that two points or to normal gall blackfer to contract is no greater than the secretory pressure of bile The chief stimulant of gall bladder contraction

thus far discovered is the hormone choice stoking This hormore may be extracted from the disclosed 100000

The most effective excitages of hormone produc too are scids and fats acting in the opper part of the missione All fats are effective, but gas you and cream appear to exert the most definite action Next most effective are proteins, particularly those of meat Carboh) drates have no effect

Whether the gall bladder all evacuate or not Noncher the gas passons was eveness of the whom I is stimulated depends on the tone of the aphaeter of Odds. The spiriture of Odds can reser planeted or count the spaneted or counterman had pressure of 75 cm whereas the markets capability pressure of the normal gall bladder as 50 cm. Hence I is possible for a spartle spiracter or

duodenant to prevent gall hieder execution The fact that the sponeter of Odd become is competent soon after removal of the pall bladder supports the Doyco Mether coccept and show that separate the purpose manufacturer consequence and more than the gall bladder has functional relation to the sphineter. Section of the sphineter pervents data tion Other facts pertaining to the physiology and

functional pathology of the aphincier of Odd ray Any procedure that increase the manufacture tone of the decelerant inhibits the flow of bile into

s. Any procedure that decreases the tone of the duodenum favors the flow of bile

3 Chemical irritation of the duodenum delays evacuation of the gall bladder

4 Atropin favors the flow of bile into the duo-

denum and pilocarpin stops the flow of bile

5 Morphine tends to inhibit the flow of bile into the duodenum because of its effect in increasing the tone of the circular muscle of the duodenum

6 Magnesium sulphate, magnesium oxide, and

sodium sulphate favor the flow of bile

7 In cases of cholecystitis or duodenal ulcer the

sphincter may be hypertrophied

8 It is reported that some time after cholecys tectomy the sphincter may become competent or may undergo hypertrophy

9 In animals without a gall bladder the sphincter resistance is less than in animals with a gall bladder

Westphal has described two major types of motor

dysfunction of the biliary passages

I Hyperkinetic (1) hypermobile, characterized by increased motility of the gall bladder and ampulla with rapid emptying, and (b) hypertonic, characterized by contraction of the gall bladder against spasm of the sphincter with spastic distention and colicky pain.

2 Atomic, characterized by relaxation or atomy of the gall bladder with spasm of the sphincter of the papilla causing atomic distention of the gall bladder with a mild, continuous, heavy aching sensation

Prevention of gall-bladder disease may be aided by daily evacuation of the viscus by the proper in-

take of fat.

In acute biliary tract disease not demanding immediate operation sedation had proved effective Foods such as fats, meats, and acid fruit juices which stimulate gall-bladder activity should be withheld. The advisability of administering bile salts in cases of such disease to promote the formation of bile is to be seriously questioned

The evidence strongly suggests that the gall bladder is not benefited by drainage. If the mucosa is not permanently damaged, the scarring incident to drainage may interfere with normal emptying

It is now generally recognized that cholecystectomy is indicated definitely in cases of multiple small stones and cases of high-grade chronic cholecystitis with non visualization of the gall bladder Unless it can be shown that cholecystectomy has a harmful effect, the operation will always be performed in borderline cases in which the gall bladder is suspected to be at fault.

HOWARD A McKnight, M D

Stewart, W H, and Illick, H E Sources of Error in Oral Cholecystography, with Suggested Methods of Correction Radiology, 1934, 23 663

A common cause of error in oral cholecystography is the failure of the patient to hold his breath while the film is being exposed. During the suspension of respiration holding the nose is often of assistance.

Antonucci demonstrated that oral cholecystography can be accelerated by increasing the glucose reserve of the body Sandstrom found that the

shadows are intensified when the dye is given in fractional doses. On the basis of these findings and their own experience the authors have developed what they call an "intensified method of cholecystography." This procedure is as follows

The afternoon preceding the test the patient is given tea with as much sugar as possible and one sweet cake Immediately after the evening meal he is given 3 5 gm of tetra-iodophenolphthalein. No extra fats are included in the evening meal. The following morning no food is allowed. The study of the gall bladder is begun sixteen hours after the administration of the dye. Foods that do not empty the gall bladder are then permitted Extra sugar is an important item. During the afternoon and evening, additional dve is given in small doses with The following day, before breakfast, forty hours after the first dose of dye, an examination of the gall bladder is made for maximum intensity of the shadow Next, a fatty meal is given, and an hour later an examination is made to determine the contractility of the organ Sometimes the patient must be kept under observation for a number of hours as the gall bladder empties

The authors claim that stones and tumors are more easily recognized and faint shadows of cholesterol stones are visualized more readily by this method than by others. The bile ducts are clearly outlined in practically every case in which a gall-bladder shadow of normal intensity is obtained Fluoroscopic examination of the gall bladder is

practical

In interpreting the findings the authors point out that absence of a shadow is sometimes due to a duodenal ulcer and sometimes to the presence of a large renal tumor. Regardless of the cause of the jaundice, the oral test fails to outline the gall bladder satisfactorily if the icterus index is over 30.

Benign growths, especially papillomata, are most likely to be seen along the margin of the gall-bladder shadow. They are seldom found in the lower portion. The defects may be multiple, but are discrete in contrast to those due to gall stones. Such negative areas may not appear until the gall bladder is partially empty. The defects due to adenomata are nearly always at the tip of the fundus and are more apt to be slit-like than round.

EARL O LATIMER, M D

Larrabee, R C Chronic Congestive Splenomegaly and Its Relationship to Banti's Disease Am J M Sc, 1934, 188 745

On the basis of a study of forty-seven cases of chronic congestive splenomegaly, the author expresses the view that in the majority of patients presenting the clinical picture of Banti's disease, i.e., splenomegaly with fibrosis, microcytic anæmia with leucopænia, and a late state with hæmorrhage and ascites, the condition is dependent upon various intra abdominal lesions obstructing the venous outflow of the spleen By far the most common of these lesions is hepatic cirrhosis of various types.

Band defined the disease which bears his name in med a manner as to exclude such case. Larrabour in the contract of the contra

The causative conditions, the treatment, and the results in the forty-seven cases reviewed are shown in the following table

With repard to the choics of cases for splenectory that stather quoters halfy on stating that the criterion and a first on the pathodyleal conductor that the criterion white effect on the best control of the splene has been confirmed believes that the under the property of the case need not trouble confirmed the case need not trouble and the case and the splene has been discussed in the case and the property of the case and the property of the case of the party pathodyleaf in persons, if the has subject to the pathodyleaf in property of the pathodyleaf in confidence in the pathodyleaf in

Totals

HERRET F TECHNOT M.D.

#### GYNECOLOGY

#### UTERUS

Shaw, W. F. The Treatment of Genital Prolapse J. Obsi. & Gynac Brit. Emp., 1934, 41 853

Shaw gives a brief review of the anatomy of the pelvis with special emphasis on the uterine supports, the parametrium and the pelvic muscles. He states that prolapse of the pelvic organs is the result of laxity due to weakness or injury of the pelvic muscles and parametrium. Without such laxity, prolapse cannot occur.

Laxity of the muscular tissue about the urethra allows undue dilatation of the urethra with incontinence under strain. Laxity occurring more postenorly results in cystocele, prolapse of the uterus, and rectocele, all of which are a part of the same condition

Among secondary conditions which in many cases hasten or determine the occurrence of genital prolapse are increased intra abdominal pressure, increased weight of the uterus pushing that organ down, and increased weight of the cervix pulling the uterus down

The author discusses the various operative methods of treating prolapse. As the cause of the condition is lack of support of the pelvic floor, an operation which strengthens this support seems rational Such an operation is colporrhaphy. As a rule both anterior and posterior colporrhaphy are combined with amputation of the cervix. Shaw describes a method which has been used in Manchester by himself and others with slight modifications and excellent results since 1888. Of a series of 664 cases in which it was employed, a complete cure was obtained in 96 38 per cent, and of the cases in which a complete cure was not obtained, the symptoms persisting were severe enough to warrant further operative treatment in only 0 75 per cent. The mortality was only 0 43 per cent

In 10 3 per cent of the cases the operation failed to cure chronic pain in the lower abdomen and back, and in quite a large number it failed to control incontinence of urine on straining. Only 16 5 per cent of the patients showed any sign of recurrence after parturition. The results were as good in women who had passed the menopause as in young women, and equally good in nulliparse and multiparse. The operation does not cause trouble in subsequent labors.

Theory Bell, MD

Naujoks, H, and Hossmann, H. The Radium Treatment of Benign Genital Hæmorrhages (Die Radiumbehandlung gutartiger Genitalblutungen) Zentralbl f Gynack, 1934, p. 1922

The authors report the results obtained from intrauterine radium irradiation in 285 cases of benign

genital hæmorrhage treated at the Marburg Clinic Among these were 252 cases of climacteric and preclimacteric bleeding, 19 cases of myomatous uterus, 6 cases of submucous myoma, and 8 cases in which the irradiation was done for tuberculous endometritis, blood diseases, juvenile menorrhagia, or sterilization

The technique was the usual technique except that, for drainage of the uterus during the irradiation, a gauze drain was fixed to the upper end of the radium capsule and led out of the uterus into the vagina

The disputed question as to whether it is possible to protect the ovaries from irradiation by tamponade of the posterior vault of the vagina or by pulling the uterus down (Jonen) is discussed

The dosage administered in the reviewed cases was relatively very high (from 2,000 to 3,000 mgm - hrs)

In general, the results were good Of 213 cases traced, the bleeding was definitely arrested in 207. The remaining 6 cases are discussed in detail. In all of the latter, submucous myomata were found, and in 1 of them the usual cystic glandular hyperplasia of the climacterium was also present. In 1 case of tuberculous endometritis the irradiation was successful, but in another it failed to arrest the bleeding. In the cases of 2 girls thirteen and nineteen years of age respectively who were treated for juvenile bleeding, the bleeding was not controlled although relatively high doses (2,400 and 1,200 mgm-hrs) were used

In discussing the dangers and complications of the treatment, the authors cite a case of death from embolism. They state that, in general, the climacteric symptoms in the reviewed cases were very mild. Relatively often, however, the patients complained of joint pains (climacteric arthropathy). In the cases of a large number of the patients the radium climacterium lasted for from several weeks to several months, and in the cases of a few, for several years.

The article is concluded with a theoretical discussion of the mode of action of radium irradiation—whether it consists of coagulation of the endometrium or arrest of ovarian function. The authors seem inclined to favor the first theory.

In none of the cases reviewed were carcinomatous changes found later. However, it is erroneous to assume that intra-uterine radium irradiation is an effective prophylaxis against carcinoma of the body of the uterus. This assumption is proved incorrect by cases reported by Koblanck, Philipp, and Werner in which carcinoma developed later in spite of such irradiation.

(F SIEGERT) JACOB E KLEIN, M D

Bolam, R. Prehypophyseal Harmonnesis in Melig neart Tumors of the Uterns. Considerations nent 1 timors of the Uterns. Considerations and Researches (Self-ormownie Propodurie no and Researches (Sen oraceans) Proposition on Innerd Indept dell'atare Consideration rioncle) Res (tel 4) press 034, 7 9

The possible infinence of the hypophysis cerebif and its bornomes on malignant tumors has been the and its assumed to make the stress the more important reports of positive and negative clinical and experimental findings

Boath studied the urine of thirty-sine women with malignant tumors Thirty five of the subjects had similar cardinomata of the cervix of the uterus and five had carefromate of the corpus or the va-

line. Five groups of experiments a cre carried out in the first group, o c cm of grine acre injected in single dose into experimental azimals and the emitalla of the nimals studied after forty-eight from In the second group, repeated injections of

on in the serious group, repeated injections to come of urine serio made into experimental and mals twice a day and the rentalls of the animals eventioned (wenty-four hours after the last injection the third and fourth groups, mastre does of aniss were injected into the experimental animals and the fifth group, animals were injected with the spinal fluid instead of the urine of the women. In the case of one woman, c.m. and in the cases of three women, 6 or 7 cm of spinal fluid were in

The results abound aimout uniformly that a bormone of possibly hypophyseal origin was not demonstrable in the urne studied. The entire series of experiments revealed only three mildly positive

Sampson, J.A. The Limitations and Damsers of A LOUIS ROSE, MD upson, J. A. The Limitations and Damests or the Intra Uterine Application of Radians in the Treatment of Carcinoms of the Body of the Uterna. Am J Our & Cyme. 934, all 782.

The efficiency of the intra-sterior polication of radium in the treatment of carcinoms of the body of the uterus depends upon the following factors (2) the sensitivity of the entire growth to radium irradia tion, ( ) the placing of the capsules in the uterine cavity (3) the dozze, and (4) the promotity of the radium to the growth, especially the invading por thous which are at the greatest dutinoce

From the standpoint of the intimate application of radium to all of the growth cases of carcinosis of the body of the torus may be divided into the

Those in which the intimats pplication of radium to all of the cardrooms can be accomplished

Those in which the intimate application of radium to all of the growth is possible, but conditions may render t a matter of chance Rocciscone trains of artest in saying cabanges acres byrong as in group or open at which expenses were present as in the uterus demonstrated that the intimate application of radium to my or all of the growth may be ten or cause to my or an or the growns may be rendered unsuccessful by faulty technique in the

placing of the capacies, large size of the oteriae pending or the capacity and the life in the victors cavity a cavity of the life type lattraceral my commits enlarging the eterine cavity large polyn which like salmuccos myomata, may defect the vance, the same sense of the growth from the raders and bulky carrisomate bling and distribut the

nitribe cavity like submucom myonata showed sho that is, or more capacles, in inches formation, extending from the funder through the source out of the carried one of

Those in which it is impossible to apply attains Those in winch it is impossing to all of the growth Failure t find cardinoms in Check up corettee from at to ten weeks or even in twice that length of time after radium treatment does not rale out the choose in areas not reached by the carette. It some crosses an access and remaind my the contract of thems leads to a false sense f security and may be responsible for the patient's death

In spit of its uncertainties, limitations, and dan gers, the intra staring application of radium is of great value in many cases of carcinoms of the body

Because of the impossibility of determining the necessary or the impression of the growth before tractment and the fact that all of the carcinoma may sometimes be removed surposity in case in which sensentes or removed surgeony in case at which added in tradition would be unsuccessful, removal of the overies, tubes, and entire uterus with an attempt bearing the discumination of the carrisons h indicated in the cases of patients who are good surgical risks

The intra-utenne procession of radium is bach cated in hazardom proposi raths capacially when the uterus is small and the adners are not enlarged. It is indicated sho in cases of carcinoms lock are evidently moperable EDWARD L CORRELL, M.D.

Hanly IV P., and Arbeson, A. N. Radistics Treat ment of Carcinoma of the Carrix. An J. Resignat. 914, 32-545

Carrinoma of the cervix is now generally reco upod as unspirated pason spice cas be tersomely well controlled in favorable cases by irradition therapy As parametrial involvement and period metastane have already occurred in from 75 to 80 per cent of the cases hen the patient comes for treatment, the treatment must include the para mentium and peivin Radium applied to the cervical region cannot be expected to be effective more than 4 cm from the canal Therefore external brachities such as rooming irradiation is necessary for the more distant pulse involvement. The authors adrocat rocation irradiation before the polication of radians to all but the earliest cases

Of ra enty-ax carcinomata reported by the authors, taenty-five serie distributed histologically as specmoos chequimosq crincas suq coc sa era equicona canada acta cuestronen unanominanta acta cuestronen unanominanta acta cuestronen unanominanta acta cuestronen cinoms. All but one had extended well beyond the The treatment consisted of roseigns michtion followed by radrum irradiation.

The factors in the roentgen therapy were 200 kv, 30 ma, a 70-cm target-skin distance, filtration with 05 mm of copper and 2 mm of aluminum, and 4 fields (2 anterior and 2 posterior) measuring 10 by 15 cm. To each field from 2,000 to 2,400 r were delivered, 200 r being given to an anterior portal and 200 r to a posterior portal on the same side daily From twenty to thirty days were required to deliver the irradiation. In only 10 per cent was there a rather marked skin reaction indicated by peeling. The constitutional effect was entirely satisfactory. There was little or no bladder or rectal distress.

The roentgen treatments were followed by the application of radium to the cervical lesion for approximately 1,500 mc-hrs with filtration by 2 mm of brass Immediately following this application, two radon capsules with filtration by 0 5 mm of gold and 2 mm of black rubber were placed in the cervical and uterine canals for 3,000 mc-hrs

Biopsies were done during the course of the treatments. From three to six weeks were required for complete primary healing of the cervical lesions by roentgen therapy. Healing was more prompt when the higher dosage was employed. Of interest was the fact that even in the presence of clinical evidence of cure, biopsies were positive in the cases of patients who had not yet received radium treatment. The blood-vessel changes and fibrosis remained. Histological studies in a control case in which 700 r were given to 4 fields revealed more rapid changes, but less change in the tumor bed. Primary healing did not occur and specimens taken two weeks after the beginning of the treatment showed evidence of multiplying resistant cells.

Since regression of the lesion was evident clinically and histologically, the authors believe that regression might reasonably be expected in the region of the parametrium. However, radium should be employed in the treatment of the primary lesion, and in cases of very early lesions should be used before the roentgen-ray cycle.

EARL E BARTH, M D

#### ADNEXAL AND PERIUTERINE CONDITIONS

Novak, E, and Brawner, J N, Jr Granulosa-Cell Tumors of the Ovary Am J Obst & Gynec, 1934, 28 637

This article is based on thirty-six cases of granulosa cell tumor of the ovary. The authors discuss the anatomy, histogenesis, and types of granulosa-cell tumors in detail

Five of the cases reviewed were those of children under the age of puberty. In all of these there were manifestations of precocious puberty. Menstruation occurred in all except one. Only six of the patients were definitely beyond the menopause, but ten others were in the fifth decade of life.

When the tumors occur before puberty they usually cause precocious menstruation. When they occur during reproductive life they bring about disturbances analogous to those characteristic of hyperplasia of the endometrium (menstrual excess).

with amenorrhoea at times) When they occur after the menopause they tend to produce a menstrual or pseudo-menstrual type of bleeding

A stimulating effect of the tumor on the structure and function of the breasts is noted. In children under the age of puberty and in women beyond the menopause striking effects on the secondary sex characteristics are apparent. The special biological effects of these tumors are due to the fact that they secrete folliculin and, in some cases, also progestin

While it has been rather generally agreed that the malignancy of granulosa-cell carcinoma is much less than that of ovarian cancers in general, the authors are of the opinion that it is considerably greater than is generally believed. In the reported cases which were adequately followed up, the incidence of clinical malignancy was 28 i per cent

As a rule the tumor can be readily demonstrated by bimanual or abdominal examination, and in many cases it is noted by the patient herself. In women during the reproductive period of life the granulosal nature of the neoplasm is usually not suspected until operation is performed and sometimes not even then

The treatment of granulosa-cell tumors is essentially surgical. For the present it seems best to restrict radiotherapy to inoperable or recurrent tumors or to give it before or after operation in cases of tumors that are surgically removable

EDWARD L CORNELL, M D

#### EXTERNAL GENITALIA

Mercier, O Personal Technique for the Cure of Epispadias in Women Brit J Urol, 1934, 6 313

Mercier reports the case of a girl seventeen years of age who had suffered from incontinence of urine since birth Examination showed that the urethra opened behind the symphysis and was only 1/6 in long The labia majora, the labia minora, and the clitoris were separated by a furrow On each side of the furrow, at the end of the labia minora, there was a stump which appeared to be the vestige of an incompletely formed sphincter X-ray examination disclosed no separation of the pubic bones

The operation performed was a combination of procedures It elongated and narrowed the urethra and restored the external sphincter The technique was a modification of that used by Marion elongate the incomplete urethra, a flap was dissected from the anterior wall of the vagina and each side of the flap was fixed to the corresponding side of the furrow Thus the internal part of the new canal was formed of the vaginal mucosa After the new urethra was shaped, the lateral stumps which seemed parts of an incomplete sphincter were sutured together in the median line as would be done for the cure of cystocele The lateral dissection was deeper and the sutures were placed as far as possible on each side The operation was completed by reconstruction of the labia and clitoris The bladder was then drained by means of a cystotomy No catheter was placed

in the new canal before the afteenth day. On that in the new cases occurs one sometime may on one of the Contotomy tube was removed and a soft catheter was introduced into the new prethis and tenuerer was minorated into the per minorate who deft mail the superpublic wound had bealed completely Within three weeks after the operation the pattern was able to prinate normally and to bold percent was asset to unmark normany and her urine perfectly. There was no noceastle

HEARY W PINE, M D

#### MISCELLANGOUS

Treins Rao G. Therms-Electrical Researches in Obstetrica and Cyracology (Ricarde termo-Unactive and Cappe offstico (AAMUN (Marine) Mai & Since 934, 7

The author reports studies in which he used the electrical method of Benedict to determine the ser face temperature of the body. He describes the method and discusses its advantages. The measure ments were made at boot 35 standard points which

Determinations in the cases of 80 women aboved that under physiological conditions the catanonas tast enter physicians constitute the comments from 30 to 34 degree. The variation seems to be dependent upon the subject so nd general condition and the condition of the so in general common and the common of the and cold spots on the surface of the body. The same points are found chiefly on the head and trunk, and

V thatform in the cutanoous temperature recycle. In the cases of yo normal women the temperature determinations were made 4 times day pearun occurrence were many and only about that, in general, there is moderate American of the temperature during the second exercise of the temperature during the actions intermenation stage which possilly reaches its maximum the week before the occurrence of men actuation and then returns ( a level which remains constant in the posimentical and first premencontains the tree presumentation and the premen-structual stages. The verage difference between the action scapes. And version universe outside from 4 to degree The maximum elevation occurred in the octree to maximum cavatam occurso in the the variation as from 9 to 8 degree

To simile study of 200 s omen to serious states of bicknesses, it was today that the caracter season was perature is lower during the first half than during the second half of pregnancy Whenas m the arly sersion that or because A programmy in one and mates the lower limits of normal, in the last souths many the every units or bounds, to the use account to the approximate the upper limits of normal t tends to approximate the upper state of an and becomes higher as term is percented. There and occurred migrat as term in paymented a secabdomen Measurements ; points in the breasts aboused constantly higher temperatures in pregnant ones than a non-pregnant somen Jost before and during labor there is a further rise in the tens persture In the purpersum there is gradeal inpersons as the participation there is granual to crease during the first tacky boars which is followed by gradual decresso in the second to cire boom and then by progressive one until the second or third

day of the pumperlam. From the third to the cash is day there is a gradual docume and the

County sever so rosecous.

Statistics of do notices with uterine fibrours oracle. revealed no variations from the normal In studies of 46 nomen with carrings of the

an account or 40 momen what carcinasies is the internal fewers found that the temperature in this nterns it was sound that the temperature to two conquison is instally within the normal nature out a small stress of alin on the lower abdomen come ponding to the uterus and adness it may be attain

In the cases of 33 women with overlan costs, the temperatures ere normal

In the cases of 54 s comm. Ith indemnations of the privis and adverse quite marked apportions was found. The portions of skin corresponding to has more the parents of the state of the state of the innersed vessels with natural town the sain wo other parts of the abdomen by an average of from

55 to 70 testion Studies of the extremities of 6 momen with thrombophietitis showed that the involved extremthe sea on sea Acres tion to a chief assign than the opposite normal extremity from the he

standing of the subjective symptoms and area guaing or the subjective symptoms before the objective signs were manifest Lin a study of \$5 new born infants weighing at least An a sum y or o3 no source returns sergong as son are so g defices and the maximum 33 kg defices

An average temperature of 3 5 degrees was consistent During the first and accord days of his the temperature tends to fall, but the decrease it ices than 5 degree The fall is followed by Backel return normal which is reached by about the tents or twelfth day in premature infants cigaing has thes \$,500 km the temperature was found to be lost than in full-term infants, averaging from 35 to 37

degrees It varied like that of fall term infants. Studies of the vaginal temperature were made in the cases of 1 normal nomen. The average varietion is between 50 and 37 6 degrees. The varia-tions during the meastrual cycle correspond to the changes in the cutsneous temperature. Is prescan be a more consecuted temperature in per-tanger there is practically no change in the rather temperature small bout the capits mouth Variatoos heh compare ith those in the extensors temperature then occer In women like carcinome of the sterns the vagnal temperature averaged about 37 95 degrees In 8 women ith tabel pre-

# Wiemer R. P. The Postnatal Development of the

Genical Organs in the Albino Rat. J Ole & Oyner Brit Luip 954, 41 807 Whener reports experiments carried out on rath

to determine the factors informing preparation development discusses the difference therefore of sex differentiation, and cites Goldschmidt' principles. caples to explain certain monstroutnes

The experiments carried out on male rate aboved And experiments carried out on make rats assured that contration interfered with both the growth and the differentiation of the glans pane. The effects became noticeable within a week, and the differences between normal and castrated males increased with age. Apart from the reduction of the growth rate and growth limit, the most obvious effects of castration were. (1) complete absence of the anterior process which, in the male, is formed during the first week of life, (2) incomplete differentiation followed by partial de differentiation of the corpus cavernosum glandis, and (3) incomplete differentiation of the integriment

The seminal vesicles depend for their growth and differentiation on the testicles While the testicular secretion is necessary for the normal development of the sex organs in the rat, this may not be true in

other species

The effects of castration in the male can be largely

neutralized by injections of androkinin

The author describes the normal prepubertal development of the uterus and vagina of the rat in

In his experiments the animals subjected to complete oophorectomy soon after birth continued their development. It is therefore evident that, in the female, the gonad is not required for prepubertal development, and it appears that somatic, and not gonadic, factors are responsible for early genital development.

In the female it is necessary to distinguish between two phases of extra-uterine genital development. The first phase is represented by infancy, during which differentiation of the genital organs is completed, and the second phase by puberty, when the effect of ovarian hormone becomes manifest

In the reported experiments, the administration of thelykinin to newborn female rats failed to produce acceleration of differentiation or pronounced growth

T FLOED BELL, M D

Butenandt, A Recent Progress in the Study of Sex Hormones (Neuere Ergebnisse auf dem Gebiet der Sexualhormone) Wien klin Wehnschr 1934, 2 897

This article is a review of what is known with considerable certainty to date regarding the physiology and chemistry of the sex hormones number of the hormones involved in the regulation of the normal sexual processes and the sites of their formation have not yet been determined beyond dispute At the present time only the hormones which act directly on the primary and secondary sex organs are called sex hormones In contrast to the specific hormones of the female and male sex glands the gonadotropic hormones are characterized as sexually non specific That the gonadotropic factors are true substances has been proved by experiments with extracts of the anterior lobe of the hypophysis

The author rejects the theory that the gonadotropic hormones act as a motor for sexual function in the sense that puberty, menstruation, and the functions of the sex glands are initiated only through the production of such hormones. He believes it

possible that an accessory factor (likewise formed in the hypophysis) is necessary, that the combined action of this factor and the gonadotropic hormones induces puberty and its failure induces the climacterium

The problem as to the number of gonadotropic hormones is still unsolved. As the chemical study of the hypophysis is not yet completed, it appears likely that this question can be answered only after the effective gonadotropic substance has been chemically isolated in pure form. The highest degree of chemical purity thus far attained presents no grounds for separation of the hormone into Prolan A and Prolan B. It appears that, during pregnancy, the gonadotropic hormones are formed in the placenta.

The male sex hormone was first isolated in a chemically pure crystalline form (androsteron) by Butenandt and Tscherning Further studies are necessary to determine whether it consists of one or several sex hormones

The follicular hormone has been isolated as a chemically simple substance in crystalline form by Butenandt, Doisy, Marrian, Laqueur, Collips, Jacobi, and others from the urine of pregnant women, the urine of the mare, the placenta, and even palm seeds Strangely enough, it always occurs in association with the male sex hormone. It is described as a growth-producing substance with a special influence on the female genital tract.

According to Butenandt, the hormone produced by the corpus luteum has been definitely recognized thus far only through its well-known effect on the

proliferating uterine mucosa

The interaction of the sex hormones through the interaction of the mid-brain, the hypophysis, the sex glands, and the uterus is explained with the and of a table from the work of Schoeller The influence of the sex hormones on the cyclic change in the uterine mucosa through the successive action of the follicular and the corpus-luteum hormones seems to have been definitely proved. To produce the picture of a menstrual cycle in the uterus of a castrated woman from 250,000 to 300,000 mouse units of follicular hormone and from 30 to 50 rabbit units of corpus-luteum hormone are necessary However, this amount only seems to be large as 1,000,000 units of follicular hormone correspond to 20 mgm of the crystalline follicular hormone Onetenth  $\gamma$  of a standard preparation preserved in London is equal to 1 international unit of follicular Chemical purification of the follicular hormone renders possible exact dosage by weight

In the determination of the chemical formula of androsteron and the follicular hormone considerable progress has been made. The follicular hormone is so closely related to androsteron that it appears possible to transform androsteron into the follicular hormone by dehydration and splitting off an atom of carbon. Both hormones belong to the class of stearins. In dehydrated androsteron a substance intermediate between the female and the male

hormones has been found. Butenandt considers it assumpted that the action of these hormones might be parameter that the school or takes normones might one forcessed by a slight change in the structure of materials of a significant comme in the structure of their chemical formula. He believes it possible also cost thereby considerably reduced.

or unruly commercially recover.

The chemical study of the corpus luteum hormone a still in its initial stages. Butenand believes that ns sum in the manual angent interconnect versions much be is the first t have obtained a chemically simple, ce is the mast to make with the effect of the corpustrystamine sometimes with the chemical attracture of this substance suggests a close relationship between the corpus-istum homone and the other serviced use POLIDOGET (H. ZEGNAND) YORA IA DELAMA NI D. CONTRACTOR MANAGEMENT MANAGEMENT

Donaddu F. F. The Influence of Thymectomy on Sensetic Activity and the Offspring (L'Inflances (constitute activity and the bringing to define stiming and activity general solid project solid strong solid soli

The author reports his experimental studies re and some reports an experimental scores re-serting the relationship of the thyrms gland to senetic activity expecially in the female La one group of male rabbits and one group of

is use group to make include the same frame rabbits thymestomy was done prior ( the age of poberty and in two corresponding groups it

was done after maintify. The animals were then matted in all bossible comparation at the each other ages came areas manners. You among a sea came maters in an pressure communication with each oracle and with normal books and does. The offspring and their young in turn acre treated similarly is and user young in turn acre treases amounty in this way the author was able to study the effect of the way the activity was size to singly the effect of thymetromy on generic activity of fire conservity

remarking of rabbits (nicety-cight animals) like and summarized as follows: Inding as semmatized a titles.

The first temperate activity of the ribbits was greatly altered the prestic activity of the ribbits was greatly extended the prestical particularly when the prestical particularly with the prestical particularly with the prestical particular was deficient the age of special particular was deficient and probable when

3. Fecundation of thymeetomized rabbits as

their thymectomized descendants was possible only when these rabbits a ere mated with normal arisma 4. The newborn of thymectomized rabbits 4. The branch of thyractumerer rapous coghed less t birth than those of the controls, but their source development was affinity accelerated on the control one control on the control of t their monate coverequent was august microaco controls.

5. The psychic development, immediate as ell as remote of the ofspring of thy rectorated rabbits was entirely equal to that of the normal controls Ground C From M D

#### **OBSTETRICS**

#### PREGNANCY AND ITS COMPLICATIONS

Davy, L, and Sevringhaus, E L Analysis of Errors Inherent in Pregnancy Tests Based on the Aschheim-Zondek Reaction Am J Obst & Gynec, 1934, 28 888

Of 425 cases in which tests for pregnancy were made by methods based on the Aschheim-Zondek reaction, the diagnosis was accurate in more than 90 per cent. Three modifications were employed either as individual methods or as concurrent tests with interpretation of the results as a single test.

Erroneous diagnoses due to limitations inherent in the methods were made in 8 per cent. Such syste matic errors occurred in 3 92 per cent of the cases of pregnancy. Two were made in cases of very early pregnancy in which the test was positive later. In early pregnancies more consistently accurate results were obtained by a modification of the Friedman rabbit test or by an immature female rat test than by the Schneider immature rabbit test. Incorrect negatives were obtained in 9 pregnancies of more than one month's duration. In 7 of these there was definite fetal or maternal abnormality, in 1 there was no known abnormality, and in 1 the history was not reliable.

Faulty tests made in 12 7 per cent of the cases in which pregnancy was absent may be classed as sys tematic errors Many of the cases with a false positive test can be correlated with known gynecological problems in which there are demonstrable endocrine disturbances Each of the cases testing incorrectly positive was studied from the standpoint of the clinical features manifested before and after the test and with respect to the ovarian picture in the insected animals Correlation of the laboratory and clinical findings suggested that ovarian dysfunction in the absence of pregnancy can be differentiated from pregnancy by the concurrent application of 2 or more tests to the urine. In cases of this type false positives have not occurred with the use of either the Schneider immature rabbit or the immature female rat as the test animal. The more highly sensitive Friedman rabbit is of value for the demon stration of gonad-stimulating substance in the urine of non pregnant women

EDWARD L CORNELL, M D

Astrinsky and Grinner Gonorrhæa and Pregnancy (Blenorrhagie et grossesse) Gynée et obst, 1934, 30 430

The authors report their observations in 142 cases of gonorrhea in women seen over a period of from two to five years. In 135 of these cases bacteriological proof of gonorrheal infection was obtained. In 7, the diagnosis was made clinically. During the

period of observation, 121 of the women had 1 pregnancy, 18 had 2 pregnancies, and 3 had 3 pregnancies

In order to study the effect of gonorrhoa on fertility, conception pregnancy, and the puerperium, the authors divide the women into 3 groups as

Group 1, 45 women who conceived when infected Among these were 41 with involvement of only the lower genital tract and 4 with ascending infection of long duration

Group 2, 52 women who became infected during pregnancy, including 21 who were infected during the first half and 31 who were infected during the second half of pregnancy

Group 3, 45 women who conceived after recovers from the infection, including 28 with involvement of only the lower genital tract and 17 with involvement of the adness.

From their observations in these cases the authors conclude that gonorrheal infection of the cervix and adnexa does not exclude the possibility of conception. Pregnancy is capable of activating latent gonorrheal infection. Involvement of the internal genitalia, vagina, and cervix during pregnancy is accompanied by more intense clinical symptoms than gonorrheal infection in the absence of pregnancy. The incidence of complications during pregnancy or the puerperium is highest when conception occurs in the presence of, or following ascending gonorrheal infection. The chief complications are early abortion and postpartum hamorrhage. The presence of gonococci in the lochia is not necessarily accompanied by fever.

Puerperal disorders occurred in 115 per cent of the cases reviewed. In 7 per cent of the latter they occurred early, and in 45 per cent late, in the puerperium. The incidence of puerperal complications was highest (46 per cent) in cases in which the infection occurred during the second half of pregnancy. In 67 per cent of such cases the gonococcus could be demonstrated. Induced abortion accounted for 30 2 per cent of the puerperal complications. The authors believe that to prevent ascending infection following delivery or abortion, it is necessary to obtain an abundant lochial discharge.

The diagnosis of gonorrhoea during pregnancy and the puerpenium is made in the same way as in the absence of pregnancy. As a supplementary diagnostic procedure it is desirable to make a bacteriological examination of secretions adherent to the supractiliary ridges of the infant.

The treatment of gonorrhoa during pregnancy requires the use of the entire therapeutic armamentarium with due regard for the pregnancy Vaccination is indicated for both the treatment and the

prophylaxis of promperal infection. Crede a method Jacoparana in pumpara intersect. Cities a manuscropt of prophylath does not exclude the possibility of or projuty name once and caches the pressure of discovery or discovery as in the breast T discovery the presence of the gunococcus during pregnancy it the persons to the guaranteens until programmy in in necessity it use modern methods of investigation is all an ecological and obstetrical examinations in an aboutsoperation of all maternal science and remercal clinics is necessary if the fight against poouthers during pregnancy is to be successful. Effect thre prophylaus requires education of the public

Stander H. J., and Cadden, J. F.; Blood Chemistry in Pre-Eclampsia and Eclampsia. Am J. Okt.

Fre eciampsis and eciampsis are regarded as the same disease. Frequently repeated obtained studies acuse mecan recipiently repeated mecanics among a title clamb or the meant in the tame of the window with comments and the with pre-crismpals about that the as any so wan processing according to chemical character of the blood is an important index of the severity of the disease and of the treat ment needed

The non-protein nitrogen content of the blood ton non-partern micrown content of the formaline within normal Hufits in eclampsis and pre eclampais except when involvement of the Ethesys late in the disease cause it to increase. The blood tires utilisen remains low as in normal pregnancy the ratio between uses introgen and non-protein infrogen is about 4, as compared with 5 in nor mal non-pregnant women

at near-pregnant women.

The une acid of the blood shows an increase in cciampas and pre-cciampas, indicating a disturb ace in its destruction in the liver. The uric and content of the blood may be regarded as a fairly reliable index of the severity of the disease

The blood separ a not greatly discurbed, but constantly an eclampite convulsion is followed by definite hypergycemia This may be due to muscular activity

The alkah reserve is often greatly decreased. sometimes even to the level of true acklosis. The sometimes of the to the proof of the most reliable and most easily determined index of the nocessity of

The blood chiordes are not markedly decreased accept in an occasional case with marked ordens

The thorsense content of the blood remains within normal limits The sintathone content ho remains normal ex

cept in patients th low blood hemographic readings The increase in the ure acid of the blood in eclampeds and pre-eclampsis cannot be accounted ectampes and pre-trampes cannot be accounted for by a increase in thousane. The hypergreement sometimes observed in the convulsive stage of colampus poers to be true hypergiveenus ad not due to glutathione or thioneine

Emigs, L. A. The Inflaence of Freemancy on Turner EDWARD L CORVELL M D See in A. I no estimated to expension, one and Greek Mr. Am J. Ohn & Greek 914, 25 66 In the investigation reported, Emge studied the growth behavior during pregnancy of adenofibro

mats, Ebromata, and Ebrosarcomata originally de tired from a spontaneous adenofarous responsy or tires from a spanishmous autosumous in sense white rats. The tamors developed by these submisappear as single tumors and, because of their steady appear as sample content and occurred to the sample and uniform growth, are especially suitable for sach and office. The abross counts do not necessarian but actions. And normal communic on that increases are record reportly after removal. This is typical of many transplantable sercomate of the white rat. From the experimental studies to date the author concar experimental secures to the contract of benefit and malignation tunous, although responsive to the graceal systems. pageonce of bactured, as extremen ph cytopages, changes is not infinenced beyond varietion in he

dividual growth tendencies.

The behavior of peoplestic tissue during preparacy is dependent upon complex set of factors Experimental evidence strongly apports the belief that neoplastic tissue possesses definite and inherent growth tendencies which are controlled by a proter tive mechanism pacular to body economy There fore, regardless of the type of the termor the growth rate depends upon a certain balance between these two factors. A disturbance of the balance will be manifested by other an acceleration or a retardation

of the growth tendencies of the acoptactic times. A or the from an enterprise of the primary growth tendencies of a Stren peoplesm is therefore accessary for correct interpretation of the growth rate of that muor du ing pregnancy

rom clinical and experimental observations Large draws the following conclusions

The Influence of pregnancy on the behavior of heophastic tissue depends upon complex set of

The growth rate of peoplasms a laborent, but the controlling succisanson is still unknown Christ evidence suggests that pregnancy favors protective mechanism sainst tumor growth.

3 Acopiastic traces takes part in the local and remote reactions incident to pregnancy the diment result depending upon the length of the gentational period These changes are of temporary sature The extent of barrolution of heatin neoptiam de pends upon the relation of the neopleans to the senerative organs, particularly the steros

4 Neoplastic trance sensitive to hormonal stincts may exhibit mercased activity during pregnancy 5 Physical changes in bonign tumors during testation are not necessarily exhibitions of growth

6. It is not proved that pregnancy favors the isception of malignancy or the malignant depends the

7 Experimental syndence substantiates chincil Andings in general and permits the conclusion that pregnancy as a rule does not influence the growth rate or the are of nooplasms beyond certain mec tions, the most frequent of which is retardation. In many instances the growth rate remains confected Only occasionally is an acceleration observed. At the termination of gratation peoplessus assume their primary growth rate FREAD L CORNELL MD

#### LABOR AND ITS COMPLICATIONS

Caldwell, W. E., Moloy, H. C., and D'Esopo, D. A. Roentgenological Study of the Mechanism of Engagement of the Fetal Head. Am. J. Obst. & Gyr. & 1034, 28 824

Roentgen examination with the use of the precision stereoscope constitutes a distinct refinement in obstetrical diagnosis during labor. This method is rapid, accurate, and practical. In all cases of atypical labor a roentgenological examination should be made before operative interference is undertaken.

The authors present statistics on positions of the fetal head at the inlet in relation to the type of

pelvis

Positions at the inlet may be divided into three groups (1) primary posterior positions, (2) primary transverse positions, and (3) primary anterior positions, including the direct occuput anterior position

The transverse parietal position is the common

position at the onset of labor

The engagement of the fetal head is described This is the reverse of the principle known as "synchtism" which heretofore was regarded as the com-

mon method of engagement.

Posterior rotation is assisted by the angle assumed by the fetal axis along the slope of the uterine wall toward the inclined inlet. The uterine contractions impart a spiral movement to the body along these two inclined planes, and rotation takes place forward along the line of least resistance

The attitude of the fetus at rest and the changes secondary to the onset of labor are described

EDNARD L CORNELL, M D

#### PUERPERIUM AND ITS COMPLICATIONS

Salvini, A A Contribution to the Clinical Study and Therapy of Late Puerperal Hæmorrhage (Contribute alla clinica e alla terapia delle emorragie tardice del puerperio) Rr 11al di ginec, 1934, 17 238

The most important complications in the six week puerperal period are infection and hæmorrhage. The exact time in the puerperium at which hæmorrhage may be classified as late has not been determined definitely. The term "late" has been used in the literature for hæmorrhages occurring at any time between the first day and the end of two weeks.

Among the causes of late puerperal hamorrhage are (1) the retention of fragments of placenta with the subsequent formation of so called placental polypi consisting of more or less modified placental tissue covered with coagulated blood and usually pedunculated but sometimes having a broad base, (2) the retention of fragments of decidua as the result of separation of the placenta in a false plane, (3) local uterine infection (4) secondary atony of the uterus, (5) malignant tumors, (6) fibromata or fibromyomata, (7) unrecognized lacerations in the lower uterine segment, (8) vaginal ulcerations, (9) disease of the blood vessels, and (10) systemic

diseases, including blood dyscrasias and other conditions. Of these, the first three are by far the most common and important

The author reviews the chincal records of fifteen cases of late puerperal hamorrhage. Seven of the women were primipare. In twelve cases labor was spontaneous, in two cases, forceps were applied, and in one case, version was done. The time of appearance of the hamorrhage ranged from seven to thirty days after delivery. In all of the cases the hamorrhage endangered life. In eleven, the cause was retention of placental tissue. In two of these the placenta had begun to undergo putrefactive changes. In two cases the hamorrhage was due to subinvolution of the uterus, in one case to retention of decidua in the stage of hydin degeneration, and in one case

to a septicopy emia The author reviews the literature on methods of treatment. He emphasizes the importance of preventing late puerperal hamorrhages by correct management of labor and the early puerperium and immediate revision of the uterine cavity when the expelled placenta appears to be incomplete believes that in cases of retention of placental tissue in which the tissue is very lightly attached to the uterine wall and the cervix is dilated, it is best to remove the residuum even in the presence of fever This must be done with minimal trauma. If the curettage is negative, medical therapy should be instituted. If hamorrhage then does not cease or is repeated, and especially if the temperature tends to remain elevated, abdominal hysterecomy should be done before the general condition becomes too serious A Louis Rosi, M D

Watson, B P Practical Measures in the Prevention and Treatment of Puerperal Sepsis J 1m M Ass., 1934, 103 1745

In exogenous infection of the uterus the most common invading organism is the streptococcus and the most virulent streptococcus is the hæmoly us streptococcus. The organisms are introduced directly by the hands or enter the body by way of nasal and throat infection. Of importance in the prevention of such infection are asepsis during vaginal examinations and delivery, the prevention of contact between the patient and a carrier, the use of masks and the isolation of cases of infection. Without proper control and without the proper structural arrangement, an obstetrical hospital may be less safe for delivery than even the poorest home.

The vagina of every pregnant woman and of every woman in labor contains organisms which ascend into the cervix and lower uterine segment in the later stages of labor and the early puerperium. The normal puerperal uterine cavity is heavily invaded by the third day after delivery and does not become sterile until the tenth or twelfth day. Most of the organisms are not pathogens. Under certain circumstances, however, the pathogens present become virulent and cause infection. The prevention of such an occurrence requires elimina.

tion of the organisms from the gradual tract and the two or the organizations rendering them virulent The results of the treatment of puerperal infection depend chiefy on the virulence and investments of the injecting organisms and t a least extent on the institute organization and the patient's restriction. In the author management of cases of purposes ten autom management or case or processor infection the patient is hosted, a thorough physical exemination is made, an for pick is protect to the abdomen, 5 gr of quining sulphate and a small streams are administered daily and a light but nour carried and additional and a second and a se ther than inspection of any periosel lacerations that may have occurred and the removal of a culture

from within the vaginal introlim. The uterus is not supposition from the absolutes.

Perifictence of favor is due to ( ) persistence of the infection in the gierra, ( ) extension of the infec tion to the petric cellular traces (1) extension of the meetion to the bear's Actual (scheic thrompobyle bita) or (4) invasion of the blood stream. In the uthor's treatment of cases, ith persistent fever a transfersion of 500 cm of blood is given and may po repeated every three or four days

Thrombophicistis is manifested by contovertebral indepreta, a flocing in temperature, a high incocyte count, and chills. In cases in which an embodies is formed, marked dyspines and orthopioes occur. In severe cases, the use of an oxygen tank is

The operative treatment of puerperal infection is hmited. The author opens pairle baces, but does not explore massers cellulate exadates until there is definit syldence of softness and fluctuation R states that most cellubtic crudates become absorbed

# J TROPS WELL WITHERSPOOK, M.D.

Santukoff M G The Modern Management of Perseparal Ferer (La themposingus actuelle de la Grandager 924, 13 6

In spite of greater facilities for adequate obstetrias space as a second collection of the statement anniversary of the car care in Account to an account amorphism of the Care of Postporal Infaction. Moreover there is no surge therapeutic messars which provides a sare and constantly effect tive weapon against the condition. The mortality ranges from 3 to 8 per cent. At Moscow in 93 ti Mas 5 Des cent in 03 quine an existence of grappe, t rose to 86 per cent, and la 93 t fell to 37 per cent Schee from 15 to 8 per cent of those apo die sie komba aomen apo a sie bicariorale inome good bealth partners fover is an important factor in the national economy. The great variety of forms of postpartum infection proves the necessity of increases efforts to overcome the menace and increasing enors to overnous the mentice and establish standard method of freatment. The personality of personants ranges from 95 to 100 per court that of appticemes is 7 per cent and that of

petyle miercines may be as high as per cont The author discusses the ctology and pathology of puriperal septicients emphasing that pre-

vestion (the avoidance of traums, to the times, strict reaction to avoid important approach to ard the sacpas) is the meat important approach the enter co-climination of the emergences (types The sating enous variety thirtee in the presence of los circl cases values (especially after hemorrhage) The cr act dismosts of autographics infection is not always possible. In epidemics, account factors play a part. Epidemics are most common in astemn and whater when atmospheric pressure is autuan and winter when actional premate premate to are and ma-ables is minimal. The period of incubation of the arms is minimat. The property of the bacteria is variable. Tanging from twelve hours to ta cive days after abortion or debrery. It is closely related ( the organic resistance and the state of the instituto importenti sad nervosa svatema sa anii se reritori i nei calente tenenenza ano nos sene os me to the virginics of the laveding micro-organisms Under normal conditions, local tiense immunity Omer increase consumers, acces came names such as is characteristic of the overy may play

Exact diagnosis by clinical, bacteriological and bological methods must precede any attempt at trainest The firstles absent of Fucher (Philippe-Roger reaction) is of prognostic value Failure of the firstion became indicates failure of the body to react the presence of a server infertion only to treat the processes of a writer than and as a rule a latal outcome. However the Philippe Roger reaction must not be reflect upon too implicitly as during the course of an infection various reactions may be obtained. The fest given only as idon as to the state of the organism and the force tional state of the blood at the given moment Occ of the best indications of the prognoss is the hemogram The author has found that an average secocyte count of 5,000 is favorable aga 4 decrease in the hamogloban, socopania, monocytosia, and lyaphopenia ladicates as unfavorable prognoso Cinical andings indicating an undervorsibe prenoses are an increasing acidosts and a faling blood

The management of purperal infections lavolves () prophylada | protection of the organism infections () destruction of the betters ( ) prophylexis, ( period present if time permits, and (j) stression of the organic resistance to infection. The organic resistance to infection may be increased by

Shock therapy consisting of the intravenous administration of some form of protein or some other substance. The meeting of from co to mo to per cent solution of culclum chlorde ம க்கியின் in distilled ter or a 30 per cent solution of silver nutrato in alcohol usually causes intense shock by producing necroses ( various points of the vascular endothehum a th the liberation of albuminoids and colloids which can uncreasion or anomarous and colloids with apparitment and noutrains better solutions. If shock fails to occur the progress a pour as the sympathetic nervous system is affected by the torum and blocks go of the retectio endothers. System has taken place. In the cases of patients in poor condition, shock treatment should be given with caution. In cases of endocurities, accounts and metastatic pneumonia shock tree tenent is contraindicated

2 Immunization by the administration of streptococcic, staphylococcic, diplococcic, or polyvalent sera. The author combines the administration of urotropin with serotherapy at two-day intervals as experiments on animals have demonstrated that urotropin agglutinates and neutralizes endotoxins. Vaccines are employed only in chronic cases or cases of low grade infection. Serdukoff prefers autogenous vaccines.

3 Stimulation therapy (Reiztherapie) Serdukoff prefers autohomotherapy combined with the ad-

ministration of urotropin

The specific treatment outlined by the author is

as follows

r Severe forms (a) intravenous injection of alcohol, umbilical cord serum, (b) repeated small blood transfusions, (c) roentgen therapy, (d) the fixation abscess of Fochier

2 Moderately severe forms (a) the intravenous injection of a 1 per cent solution of calcium chloride, distilled water, a solution of silver nitrate, (b) the intravenous injection of urotropin, (c) the use of methylene blue and calomel, (d) umbilical cord serum, normal horse serum, polyvalent serum injected subcutaneously, (e) blood transfusion, autohæmotherapy, fixation abscess

3 Low grade infections urotropin injected intravenously, umbilical cord serum, horse serum, blood transfusion, autovaccination, incision and

drainage of abscesses

Serdukoff admits that this scheme of treatment suggests polypragmatism, but states that an experience of eighteen years has proved it to be of value. He emphasizes the importance of differentiating between acute, subacute, and chronic cases in the selection of the treatment. All possible precautions must be taken to avoid destroying the natural defense mechanisms. Bed rest is essential Serdukoff emphasizes especially his method of administering umbilical cord serum (seroplacentin)

which is said to contain large quantities of electrolytes, natural antigens, and hormones

HAROLD C MACK, M D

Schlink, H H The Treatment of Surgical Injuries Following Childbirth Med J Australia, 1934, 2 707

The author reviews the anatomy of the pelvic floor and describes the operations for the repair of surgical injuries following childbirth which he regards as the methods of choice

He believes that in the repair of the lacerated perineum the factor of chief importance is union of the levatores ani, particularly their pubococcygeal fibers. He describes the method which he uses for exposure of these muscles and their union in the midline between the rectum and vagina. His method is the simplest and most direct possible. In repair of the ruptured sphincter ani, he follows the same steps with the addition of sufficient exposure of the ends of the retracted sphincter and their

union by means of a fine chromic catgut suture and several plain gut sutures He emphasizes that union of the levatores need not be carried very far up to secure a good physiological result.

For the correction of retrodisplacement of the uterus, Schlink rejects all methods except those which have as their basis the shortening and fixation of the round ligaments. Of the latter, he uses

only those in which the stronger uterine ends are employed for support. His choice of operations is (1) the Alexander-Adams operation, (2) the Alexander laparotomy, and (3) the Gilliam-Bonney oper-

ation

For the correction of prolapse of the uterus, Schlink prefers the Donald-Fothergill operation. He describes this operation in detail. When removal of the uterus is indicated by some condition other than the prolapse alone, he prefers the Goffe-Mavo operation. Henry S Acken, Jr., M D

# GENITO-URINARY SURGERY

### ADRENAL, KIDNEY AND URETER

Respect E. Considerations and Researches on BOUL A. COUNCERSING MAN ASSESSED IN THE PRINCIPLE OF THE the rathosogical organization and the appearance and the appearance install Production of "Dynamic Hydrone-(Counderation recrete an appropriate suits productions sperimentals della Patologico adroactrosi dinamica") Arch Mal. 4 chr 38 107

In the study of the ronal privis and proter the motor functions of these structures were obvious from the very first. At the beginning f this century several investigators recognized a type of hydronephrods without apparent came which they called

dynamic " It was soon resized that the narrows system might play an important role in this disorder That neurogenous factors may manifest them. serves by arinary obstruction is well known Acuregenous changes in the function of the renal privis and creter may be in the direction of hypertoms and spann or atony, both of which may lend to diletation of the polyis However such pure clinical forms of functional disturbance are rare

The author roviews the literature on invirone phrosis and on the neuro-snatomy especially the sympathetic system, of the proter and renal peivis Because of the great uncertainty as to whether ancieral seriality is baimenily minoscupe or pontogenic, he endertook experimental studies to deter grant, as western of the changes in the motor function of the areter produced by partial destruction of the to the article produced by passens what changes in changes result from morphological alterations

H found that the optimum tension or pressure in the areter for the maintanence of personable these levels fatigue results rapidly Enervation of the areter produced mechanically or chemically is c cm of water Above followed by changes especially in periodians, but the tonosen by changes seperated to perseat indicating that the muculature retains in atomaticity and poten-

In his studies of the morphological changes in the areter and their results, Ragnotti found that disappearance of the advantities such that the muscularis is barred or remains covered by only very this lone conective tiens may result later in sciences which may change the wreter by disorganling and inflirating the musculars or replacing the muscle th connective theme. As consequence the contracts of the mercle is intermibled so that normal contractions cannot occur in the involved region I action is impaired, and retention of orane region is action as ampaired, and reconstant of trans-with distration result. When the mechanical charges are less extenses and only the nervos are manifed, the changes of function are mid and so morpho-

logical changes result. Obstruction camed by trauma is therefore mechanicodynamic and das fundamentally to achrotic stenous or angulates Although the automatic movements of the mescin of the uniter period, they are not of an expense.

# Joly J S. The Ritology of Stone. J Ural 1834.

Following a review of the history of stone formation and a consideration of the seographical distribution of the condition, the author discusses the role played by det and disease in the causation of stones, the mechanism of stone formation, and the chemical character of the stones With regard to the influence of diet be calls ttention to the role of inadequate autition and especially vitamine deficiency Amour the pathological conditions favoring the formation of stones are fractures requiring prolonged farmbilization, occompelitis, tuberculosis of lone, and outnesses, overcompens, innecessors or once and descense of the unnery organs such as hydroc phrosis, vested obstruction, congested anomalies, and infection. Joby states that any factor impairing the stability of the armary colled mechanism protoundy affects the solubility of stone-forming saits

GREET J TROPIE, M.D.

#### Frather G. C. A Method of Harmontaris During Rephrotomy for Large Littley Calcult.

For the removal of large renal calcult, Fruiter applies pedicis clamp and on the posterior surface of the kidney makes a V incises with its aper at the renal privis Re uses a 9 in Doyen curred intestinal clamp covered with soft rubber book. After compression for from eight to ten aunates the clump is released for from twenty to forty seconds. Several cases in which this procedure was used an Occurry Thomas, M.D. Oppenheimer G. D

#### Kidney Ans Surg 854, 00 jd. Polycystic Disease of the

Oppenheimer calls attention to the difficulty encountered at times in differentiating bet ees cossenital polycystic kidneys and the multiple cysts hound in arterioscierotic sidneys. This is of spacial importance in the diagnosis of unflateral polycystic

Polycystic disease of the kidney is of the choical types—that found in newborn miants and that found in adults. The former is often associated. Ith other congenital anomalies. In most cases of the latter condition the symptoms develop between the ges of thirty five and alty five years, and the erage age I death is fifty years, indicating that if expectancy is decreased by from ten to twelve years

The author states that there is a familial tendency toward the disease. While in most recent reports the bilaterality of the condition is emphasized, he presents two cases in which postmortem examination showed the involvement to be unilateral. One of the subjects was an infant and the other an adult

On the basis of the symptoms the cases may be divided into eight clinical groups. The two chief groups are the cases with cardiorenal vascular disease and insufficiency and the cases with hæmaturia, infection, and large masses in the loin. In most cases there is either clinical or laboratory evidence of renal insufficiency. Of the cases reviewed, cysts of the liver were present in about 25 per cent, definite hypertension was found in the majority, and infection and stone formation were complications in 32 and 23 7 per cent respectively

The author discusses the use of urography in the diagnosis and emphasizes the importance of the use of a non irritating substance for retrograde

pyelography

In discussing the treatment he urges extreme conservatism. He believes that operation should be reserved for complications such as diffuse suppuration and stone formation. IRVING J. SHAPIRO, M.D.

Colston, J A C Primary Tumor of the Ureter A New Method for Complete Nephro-Ureterectomy Bull Johns Hopkins Hosp, Balt., 1934, 55 361

Colston reports a case of primary papillary epithelioma of the ureter with the hitherto unreported complication of implantation in a probably pre-existing bladder diverticulum. The treatment consisted of nephrectomy followed, mine months later, when the correct diagnosis was made, by complete ureterectomy, and six months after the ureterectomy, by removal of the diverticulum containing the tumor implant. The correct diagnosis was not made until persistent bleeding from the ureter was discovered by cystoscopic examination and the ureterogram presented a typical picture.

Also reported are two cases of primary tumor of the ureter from the records of the Brady Urological

Institute, both of which were fatal.

The difficulties in early diagnosis are discussed. The value of the diagnostic syndrome of Chevassu and Mock—obstruction to the passage of a ureteral catheter followed by a copious flow of blood from the ureteral orifice—and the great importance of the ureterogram are emphasized.

According to the literature, it is generally agreed that the treatment of choice for primary tumor of the ureter is complete nephro-ureterectomy

Many methods of so-called complete nephroureterectomy are unsuccessful because they do not remove or destroy the mucous membrane of the distal stump Complete eradication or destruction of the entire ureteral mucous membrane, especially the part in the intramural portion of the ureter where tumor implantation has been shown to occur, is of extreme importance

The author describes a method of complete ureteronephrectomy in which the previously well-known steps are supplemented by a hitherto unreported technique by which the mucous membrane of the distal stump of the ureter throughout its whole course through the bladder wall is completely destroyed with the high-frequency current

CLAUDE D HOLMES, M D

#### BLADDER, URETHRA, AND PENIS

Fresnais, J Cutaneous Ureterostomy in the Treatment of Persistent Cystitis After Nephrectomy for Tuberculosis (L'urétérostome cutanée dans le traitement des cystites rebelles chez les néphrectomisés pour tuberculose) J d'urol méd et chir, 1934, 38 315

The development or persistence of irritability of the bladder following the removal of one kidney for tuberculosis may be due to the presence of tubercle bacilli in the urine or a vesico-ureteral reflux or both When tubercle bacilli are found in the urine their source must be determined

The indications for ureterostomy are (1) severe symptoms which cannot be otherwise relieved, and (2) a vesico-ureteral reflux, which may cause infection of the other kidney. Cutaneous ureterostomy is to be preferred to implantation of the ureter into the bowel (which is very dangerous when only one kidney remains), to cystostomy (which does not entirely relieve the symptoms and does not prevent reflux), and to nephrostomy (which causes destruction of the renal parenchyma). Its contra-indications are secondary infection of the remaining kidney with blockage of the ureter and a ureter too thick or infected to be brought to the skin. When ureterostomy is contra-indicated nephrostomy should be done.

In the technique of cutaneous ureterostomy used by the author the ureter is reached by an extraperitoneal approach through the lumbo-iliac region. It is divided with a cautery and the distal end tied off. The proximal end is then brought out through the incision and anchored to the muscles and skin, 2 cm being left protruding above the level of the skin. A Nélaton sound is introduced through the ureter into the renal pelvis. The catheter is watched to prevent its becoming clogged. It is kept in place, and can be changed once a week by the patient.

After this operation the vesical pain ceases and there is little or no evidence of dilatation of the renal

pelvis or ascending infection

Of ten patients treated by the author, one could not be traced, three are well (one, seven years, and two, less than one year after the operation), and six are dead. Of the six who are dead, one died seven years after the operation of an intercurrent infection, four died six months, three years, one year, and eighteen months respectively after the operation of uramina or generalized tuberculosis, and one died fifteen days after the operation with marked hæmoptvsis. The ten cases are reported in detail

MAX M ZINNINGER, M D

### CENITAL ORGANS

Resy E. R. The Surgery of Prostatic Obstruction. F. S., the surgery of crosts the controllers Authorities by New Zeeland J. Surg. 1934, 41–30. The author reviews the physiology and anatomy of the neck of the bledder discusses in considerable detail the types of disease of the neck of the bidder which cause obstruction, and describes his pre-operative and postoperative cure of crees of pro-

H then reports the results in the first too cases in which he performed a perarethial prostatic resection which the McCarthy instrument the first so cases which were selected, consisted chiefly of cases of bars and small prostates. The next 77 cases were ban and small programs. And many 17 cases seem representative of all types of prostatic obstruction admitted to the hospital. In 3 cases prostatectomy had been done The best results were obtained in cases of alight hypertrophy and hypertrophy of the middle lope. In I came the first obstation was not sufficient. In I case 3 operations were done. There were 4 deaths. The average length of time the petients remained in the hospital was twenty-three desa whereas in similar group of cases in which prostatectomy was performed it was forty-eight

in conclusion the author states that transurethral resection represents a marked advance in the treat ment of prostatic obstruction. It is the operation of choice except for cases of seak jettle palestabilies For the latter group, which he behaves constitute about 3 per cent of all cases of prostatic obstruc

THEOREM P CRAFTER, M D

### Registrat, M. M. 1 The Behavior of the Testicle For gent, at a 1 tag meneror or the service sor lowing Partial or Total Removal of the Parietal

nowing faring or lovest personned to the receives fortion of the T nice \alpha aging (ii) compared to texture of a section by a service as apprentice totals did before particular data spectroses. property) Arch and di ches 914, 31 663

The author states that his study was instigated by the drag greenent in the results of removal of the by the vagination which have been reported in the times regulate while some investmenter than the removal of the tenica vaginate has no effect on the testicle, others state that it may cause the testicle to undergo partial or complete acrophy

Regard's study was made on dogs. In sine dogs the tunion vaginalis was removed partially and m ten dops t was removed completely. At definite ten copp was recovered companies in removed for microscopic study. In both groups of animals de generative changes were found is the texticle soon guestian changes were some to the union was after the operation times another an values of seminiferous epithelia. Their degree seemed to be directly proportional t the differentiation of the cell The interstitial cells of Laydig were marked resistant to change By special staining methods reasons to change of special standard sections, fireducia and lipolysis were demonstrated early in a short period of time the degenerative changes the spectral and restitution occurred. The sprogra

and fat returned to normal in about a month, and spermatogenesis and the appearance of the texture returned to normal in about three months. The charges in the epididymis were practically negligible The author explains the changes observed as reaction to the trauma of the surgical procedure

A LOUIS ROW, M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Lucchese, G The Influence of the Suprarenals on the Formation of Bony Callus (L'influenza delle surrenali sulla formazione del callo osseo) Policlin, Rome, 1934, 41 579

The author reviews the history of our knowledge of the functions of the suprarenals He calls attention to the importance of the suprarenal cortex as evidenced by the multiplicity of its functional activities To determine the influence of the suprarenals on callus formation he performed experiments on three groups of guinea pigs each of which in cluded four animals In all three groups the radius was fractured and the ulna left intact. In Groups 1 and 2 a partial suprarenalectomy was done ten days later, and in Group 2 the operation was followed by the daily administration of cortical extract Group 3, which served as a control, only fracturing of the radius was done One animal of each group was examined after ten, twenty, thirty-five, and fifty days In Group 1, roentgen ray examination and biopsy showed delayed and deficient healing even after fifty days In Group 2, they showed more than normal and more rapid callus production Group 3, they showed more marked healing than in Group 1 and less marked healing than in Group 2

Lucchese concludes that deficiency of the suprarenals retards fracture healing, and that the injection of an extract of the suprarenal cortex advances fracture healing BARBARA B STIMSON, M D

Ellis, R W B Osteopetrosis (Marble Bones, Albers-Schoenberg Disease, Osteosclerosis Fragilis Generalisata, Congenital Osteosclerosis) Proc Roy Soc Wed, Lond, 1934, 27 1563

Osteopetrosis is known by several other names "marble bones," "Albers-Schoenberg disease," "osteosclerosis fragilis generalisata," and "con-genital osteosclerosis" It is characterized by areas of increased density symmetrically arranged. The compact bone encroaches on the medullary cavity, almost obliterating it. The most common sites of the lesions are the base of the skull, the vertebral bodies, and the long bones Other bones usually show some degree of osteoporosis Except for club bing of the ends of the long bones and the posterior clinoid process, the general shape of the bones is unchanged The name "marble bones" was not well chosen as the bones break more easily than normal bones The term "chalky bones" has been suggested as the bones can be drilled and broken as readily as chalk. However, it is claimed by some that the sclerosed bone is abnormally hard and breaks in transverse areas of decreased density

The disease is frequently familial. There are records of cases in which one of the patient's parents had the same affection. The condition may be present at birth. Delayed eruption of the teeth and dental caries are common. Encroachment of the cortex on the marrow cavity causes a disturbance of the blood-forming system resulting in certain forms of anamia and leukæmia. The enlargements at the base of the skull sometimes cause neurological symptoms. Some of the cases of delayed growth may be due to pressure on the pituitary gland by the

hypertrophied clinoid process

The author reports two cases The patients were brothers One of them was two years and ten months of age and the other a year and a half The parents were English and were second cousins Neither the parents nor any of their relatives had a history of abnormal bone conditions Both of the patients were delivered with instruments. The older boy was normal up to the age of six months He then had a convulsion at the onset of pneumonia Thereafter his eyesight was defective His skull showed bulging of the frontal and parietal regions Closure of the anterior fontanelle was delayed The teeth were chalky and showed defective calcification. The fingernails showed platyonychia There was bilateral primary optic atrophy Roentgen examination revealed increased density at the base of the skull and of the cortices of the long bones, marked expansion of the ends of the diaphyses, and cortical encroachment on the medullary cavity The Wassermann test was negative and the blood count normal The serum calcium was 8 9 mgm per cent and the blood phosphatase 125 units

The younger brother was breast fed for three months and then given cow's milk and a proprietary emulsion His first teeth appeared at the age of five months, and he began standing when he was seventeen months old He had a massive skull with a wide anterior fontanelle. A pigeon-breast deformity, heading of the ribs, and expansion at the ends of the long bones were found Eye examination revealed dilatation of the pupils, bilateral internal strabismus, and bilateral primary optic atrophy The calcification of the teeth was defective, and the nails showed platyonychia. The roentgen findings were practically the same as in the brother The Wassermann test was negative The serum calcium was 9 97 mgm per cent and the phosphatase 9 6 units. In neither case was there clinical evidence of thyroid or parathyroid enlargement.

These cases demonstrate the hereditary tendency of the disease and the disturbance of calcium metabolism. In some cases calcium deposits have been found in the tendons, myocardium, skin, vessels, and renal pelves, showing that the disease is more than bone affection

On the basis of the theory that the increased calcium depodis were due to parathyroid defeciency the author patients were given duly injections of parathyroid hormone. In both cases there was an jurnatury our not many in soon cases users was an immediate rise in the serum calcium during the injections, but after about two weeks this was followed by a rapid fall. The fall was tributed to an immunity to the injections. The blood

an manually to the injections are phosphorus varied inversely with the calcium The results of the treatment were in accord with the findings of studies on rate. The evidence appears the normings or section of parathyroid origin WILLIAM ARTHUR CLARK, M D

Richard, A. Dupula, y p. Roderer G., and Froyse, R., The Dyschondroptasis of Offier (La dyschondroptasis of Offier 934, yz. 331 727.

The authors report to detail two cases of multiple skeletal anomalies in grils seven and eleven years of age. The nonsites combted chiefly of abortening and deformittes of the long bones of the extremities and of the small bones of the bands and fret with accordary dislocations The condition was discorered during earlost infancy but hereditary fac

tors count out to personal state. Clinically the lexicos pipeared to be exclusively amiateral is one case and predominently unitateral in the other The right lower himb showed shortening of 0 cm. in the first case and shortening of 2 cm in the accord case. The right upper limb showed shortening of 4 cm in the first case and shortening of 7 cm in the second The lesions in the hands consisted of shortening and deviation of the digits The roentgen findings were also similar in the ta cases, but were more pronounced in the second case then in the first In the first case biopsy showed that the lesson was not carrilaginous tumor but a cartilighous distrophy with lasts of outfication Osteoclasis performed when the patient was two cand a half years old showed the lessons to be evoluann a near years on any which was performed when the patient as even years old and was followed by thin three months demonstrated

that the dystrophy was capable of ossification These findings justified the diagnoss of Other dyschondroplesse While the term

where the term of the cardinghoom dystrophy the surpus deine Office, quesse sa quantitative action of surpus or occupants and continues of surpus of s disease is menally differentiated clinical entry characterized by shortening and deformity of the disphyses of the larger long bones. Ostsochondromatosis involves pointard the extremotes, especially the fingers

In the cases reported in the literature the condition was predominantly undateral, the lesion on the other ade having been discovered only on roentgen examination in exteen cases the involvement was strictly undateral Officer reported two cases in

The dyschondropissis begins during the first years of His. In some cases it has been discovered t Dirth It occass more frequently in females than as males Except when associated with suntoers it

particularly the long bones of the extremities and the small bones of the digits are involved. Fast bones, such as the line bones, the scapair, and the tibs may also be affected, but never the hones of the face, skall, spine, wrist, or sable (except persua the calcaneum). The deformities increase up to the age of caldidation, and if operated pos too early stage a stage of calcification, stage of beganing

ossification, and a stage of consolidation in discussing the differential diagnosis of the an discussing the contrasts and choodresstons, the authors state that the formation of multiple emotions begins during the second period of childhood, occurs more frequently in males than is females, frequently presents hereditary aspects. and cause only reentemologically demonstrable of enchondroses. The lesions are biliteral, and the appearance of chondromata in adults is quite rare In choadromatosis the lexions appear in carl infancy are more common in makes than in females frequently show herofitary features, the knoos of the hands are of prime importance, the explains are formed of enchondrases, the lesions are busters! and chondromata re fairly common in adults

From his experiments Bentson concluded that Other, discase is not metaphysisi metaphysisi metaphasis of sympathetic order growth distribution continues to the continues of sympathetic order or sympathetic order order or s The a thorn believe, however that the known produced expensionally by Bentron were not

From the autopsy specimen described by Spener in 9.5, the authors conclude that the displyreal pasous in discoondrobers are either enclosedoses of periosteal origin or metaphyseel lessons developing in the displayers. The fact that the coordina has been discovered at birth indicates there is congenital bony distribution The authors are of the opinion that whereas (they discuss constitute) distinct disease entity it belongs with multiple exostones and chondromatom to a more general group of diseases for which they propose the same chonquodantoopha to signify through m nonest ostrogenesis ith dis-epiphyses and periostes changes connecting of the presence, at the level of the regions involved, of an abnormal amount of

COUR SCHACER MOORE

Manerict, P Jambert De Bennjau, A., and Bioch, R. Progressiva Myestris Ossificans (Myeste omdants progressive) Press and Par. 834, 41

Progressive myositis ossificans has been know in England unce 744 and in France since 530, bet was first recognized as chalcal entity by Morackmeyer in 1869 Although a rare condition, nearly

300 cases have been reported

The authors report the case of a boy two and a half years of age which they consider very typical The child was the fifth in a family in which the other children were entirely normal The family history was negative The patient was normal until one year of age, when he had an attack of dysentery Three months later, a fall was followed by the formation of a hæmatoma in the left parietal region The hematoma later disappeared but was followed by a senes of nodular swellings in the cervical and occipital region, some of which disappeared and others of which showed ossification When the child was seen by the authors, ossification in the cervical region had caused a slight anteflexion resembling that of cervical Pott's disease, and there were osseous swellings in the left retromastoid region and the subclavicular region Both pectoral muscles showed marked but asymmetrical ossification. Asymmetric osseous infiltration was found also in the muscles of the scapula and sacrolumbar region There were several congenital deformities-microdactylia, a deformity of the thumbs, bilateral hallux valgus, and cryptorchidism Roentgenograms disclosed thickening of the clavicles, deformities of the bones of the hands, and bilateral coxa valga They also showed that the bony swellings and infiltrations in the muscles were entirely independent of the bony skeleton, thus proving that they were not exostoses On the medial border of each tibia there was a small exostosis originating near the point of insertion of the popliteus muscle There was no definite increase of blood calcium and no evidence of endocrine dysfunction The child was active and, although there was some retardation of speech, was normal mentally Attention is called to the fact that while, as in other cases reported, the congenital bony deformities were symmetrical, the development of the osteomata was asymmetrical. The co existence of such bony deformities with progressive myositis ossificans supports the theory that the disease is due essentially to a congenital "perversion" of ossification or, more exactly an anomalous development of the mesenchyme from which bone, cartilage, and connective tissue are formed.

Various methods of treatment proposed for progressive myositis ossificans have not proved effective Numerous drugs, including acids, iodides, fibrolysin, and mesothorium, have been tried without definite results Radiotherapy, which has given encouraging results in the circumscribed form of myositis ossificans, has been advocated by Nove-Josserand, but is considered dangerous by Rosensten and others. The authors have not tried any form of physical therapy in their case, and do not think that surgery is indicated. They state that any operation would be only palliative and of value only to relieve a joint deformity or perhaps some other deformity definitely dangerous to life.

ALICE M MEYERS,

Bristow, W R Acute and Chronic Sprains Brit

The muscles may be considered the first line of defense of a joint. If a spraining force is too great or of too long duration, the muscles give way and the ligaments furnish the resistance. When the ligaments yield, a sprain results. Under extreme force, the bone takes the stress and a fracture results as the soft tissues are unable to protect it.

In the diagnosis of sprain it is important to exclude fracture. If the tenderness is localized over a ligament attachment, the conclusion may be drawn that a simple sprain has occurred. If the bone is tender, a fracture should be suspected and a roent-

genogram made.

The principles of treatment of a sprained ankle include (1) pressure to limit the swelling, (2) protection to prevent further damage, and (3) encouragement of function to promote recovery. A pressure bandage should be applied over cotton wool The heel should not be left out as it is one of the parts most needing support After about thirty-six hours the pressure bandage should usually be replaced by a protective strapping In slight sprains, however, this protection may not be necessary Early use of the ankle should be advised patient should be encouraged to walk at once within reasonable limits Stimulation with a faradic current helps the muscles to regain tone Gentle massage should be given to get rid of the swelling and improve the circulation

Although simple sprains heal quickly, more severe sprains may be followed by persistent symptoms and recurrence. Chronic sprains are characterized by pain, muscle atrophy, limitation of movement, and synovitis. The patient with a chronic sprain may get into the hands of a bone setter or other irregular practitioner who tells him that a bone is "out" and proceeds to "put it back." What such a practitioner really accomplishes is the breaking up of adhesions which renders the patient more comfortable. This can and should be done more often by

the legitimate surgeon

For the treatment of the chronic sprain the author advises putting the joint through its full range of motion either under anæsthesia or by repeated manipulations to the extent of the patient's tolerance without anæsthesia. The building up of muscle strength by active exercise and faradic stimulation is also of importance. The so called "tennis elbow" may be classed as a chronic sprain. Other examples of such sprain are the tearing of muscle fibers from the public ramus (rider's strain) and tearing of the soleus group.

WILLIAM ARTILLY CLARK, M. D.

Smart, Sir M The Pathology and Treatment of Sprains Bril W J, 1934, 2 673

The author makes a distinction between the words "strain" and "sprain" He defines "strain" as a rupture or injury of muscle fibers, and "sprain" as an injury to the joint ligaments and capsule He states that the latter is the more serious lesson.

An acute speam may be so alight that it is neg can action speam may us so sugar that is no see that the patient. However, there is design that the joint may subsequently be much less efficient became of the wasting and loss of tone in the musche The delicate arcolar connective tierre which fills in the space between the more firm joint structures and carries blood vessels and nerves is damaged in even the alightest injury and the damage to this there may be responsible for continued disability especially when the treatment has been profooged rest. The soft rooter tirene becomes socked in stagmant lymph, and unless the lymph is removed soon it undergoes hardening changes reading to or ganization and adhesions which came persistent discomfort and disability Too much rest in treatment is responsible for this condition. Rost is only pallis the treatment. It releves pain but may lead to tive treatment. At other importance in recovery disastrons results. Of chief importance in recovery is the rate of absorption of the effection, and this is best increased by active one A recently in red muscle can be made to contract and relax without ppreciable motion of the joint across which it passes Such activity causes no pain, yet produces the de WILLIAM ARTHUR CLARE, M D

Bossi, Y Researches on the Method of Healing of Experimental Lesions of Tendors (Riccraft and north of startpoon della (suchia). Arthogonal della mode premium the action of the Communication of the Communication of the 934, 15 433

The author presents some of his observations with regard the structure of tendoms and reports the regard is studied of the chang of wounds make by tendoms in dorn, borste and same in some of his experience from the left the change of the studies of the experience of the studies of the captaint of in our study the indirect of inection or representation. In all of them the tendom shought and the external partition means were preserved.

From his studies of tendons at persons ranging from forty-eight bours to two years first renotancy that have been and that as more received in the fore and that as more received in the fore and that as the first received that have received the fore that the fore the forest that the forest th

Uses the condition the process of representation of the dedox bradles and the internal and external perite the condition of the condition of the condition as similar internal and external derived process of normal fact, a tage in which the colleges did not are in league in the condition of the

The external pentendinsum is re formed by probleration of the temblasts of its deep layer some of which participat also in the formation f the new tendon fibers. The new formation of tendans observed in the peripheral divided transion in the horse from tender to eligible and any after tenderous with considerable expectations of the cut most considerable engineer precise forestoom of influentations that in the tenderous tenderous tenderous forestoom of tenderous tenderous for the regeneration of tenderous.

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The importance of the art, species, and general conditions of the animal in caches report is desirated. The receiving and producting characteristic states about an arthur terminal and internal conditions are important terminal and internal children are in the conditions of the conditions are important to the product that the carry development of these ports are important to the condition of the

Kecht, R.: Subscnte Suppurative Octoorpelitie of the Athas (Zer Kersans der skakaten etter Octoorpelitis der Atlas)

Wies Bies, Relecule

Non-specific supporative disease of the vertebral column is relatively rare. T date, only about so cases have been reported. Among these there are only rares of outcomvellific of the arts.

to the diager from osteonychit of the alles is very pressioned in the first product of the second product of t

Eventually, an abscess may explain the network. The stather reports caused on the state of which it stated and recently found behind in the first one the stated and record behind has been described on state of the state of the

Antinache, L. G. A Contribution to the Study of Radio-Urane Symmetrics (Contribution to the Study of Radio-Urane Symmetrics) (Contribution of artelia de la américan radiocabital congrues). Res self-

Radio-rinar synostonie is sensity congenital sulformation and often hereditary. It is more frequent in females than in males. It is characterized by osseous union of the two bones of the forearm at their proximal extremities. In many cases it is accompanied by other malformations such as hypertrophy and incurvation of the radial diaphysis, atrophy and incurvation of the ulnar diaphysis, and dislocation of the head of the radius.

The chief clinical sign is fixation of the forearm in pronation. Functional disturbances may remain masked by exaggerated movement in neighboring joints. The condition is disclosed by roentgen

examination

The treatment is surgical The two operations

possible are

r Section of the synostosis, resection of the head of the radius, and the introduction of a tag of muscle and fascia between the sectioned ends of bone

2 The formation of a pseudarthrosis in the radius by resecting a portion of its diaphysis below the synostosis This procedure combined with physical therapy gives good results

WILLIAM R MEEKER, M D

Schaer, H Patella Partita (Die Patella partita)
Ergebn d Chir, 1934, 27 I

Partite patella is characterized by separation of the knee cap into two or more fragments. The anomaly was first described by Gruber, of St

Petersburg, in 1883

The condition is of five types The author describes the individual types and the roentgen findings in each, citing illustrative cases from the literature The first and second types are quite rare The third type is by far the most common To this type belong also the so-called emarginations (marginal defects) in the upper outer quadrant of the patella The roentgenogram in this type usually discloses a bilateral half-moon-shaped osseous defect similar to that in the third type but without a demonstrable bone shadow in the defect. Another anomaly of the knee cap which shows a close relationship to the third type of fissured patella is incomplete fusion with the main mass of the patella of an accessory nucleus on the upper, outer border of the knee cap In the fourth type of patella partita the fissure is at the medial border of the knee cap These types are rare In the fifth type of partite patella, which was first described by Haenisch, the patella is divided by a frontal cleft and made up of two apposed concave disks separated from each other by a uniform fissure plane several millimeters wide which is concave toward the knee joint This condition causes no functional disturbances It is believed to be a congenital anomaly

As a rule partite patella is first discovered by chance during roentgen examination of the knee joint for some other condition. Only occeasionally is its presence determined by clinical examination alone. In many cases of the second and third types there is a considerable increase in the transverse diameter of the knee cap. As a rule partite

patella is described as a harmless anomaly as it usually causes no symptoms

In the interpretation of the roentgenogram in a case in which the presence of fissured patella is doubtful it must be determined whether the condition is an anomaly or a traumatic lesion such as a patellar fracture. In recent years this problem, which is so important in insurance cases, has given rise to lengthy discussions. As a rule the differentiation is relatively easy, but in some cases the diagnosis requires careful consideration of the history and clinical course and repeated examinations.

In exceptional cases of partite patella surgical intervention is indicated, as when trauma has loosened and dislocated the isolated bony nucleus

The author cites a case.

Knowledge of patellar variations in the animal Lingdom is insufficient for a phylogenetic explanation of patella partita However, from the findings of the investigations carried out to date it appears that in some cases ossification of the knee cap may be multicentric. This fact is the chief basis of the theory ascribing the origin of the fissured knee cap to the imperfect ossification of several nuclei. The conditions under which the abnormal ossification occurs are still unknown. On the basis of his own pathologico-anatomical studies the author ascribes patella partita to the persistence of epiphyseal lines which vary from case to case and show various degrees of cartilaginous degeneration. The problem of the nature of patella partita has given rise to long discussions and various theories. Gruber believed that the condition is the result of imperfect fusion of two osseous centers This is the theory most generally accepted today as it is known that the knee cap may ossify from several ossification centers However, it is still unknown why, in certain cases, the bony patella arises from several nuclei, whether this multiplicity is based on a multinuclear anlage of the cartilage, or to what such an abnormal anlage is to be ascribed.

Siemens was the first to report the familial occurrence of split patella. He observed the condition in the father and a brother of one of his patients and in two brothers of another

From numerous cases, some of which he observed clinically himself, the author has gained the impression that knee joints in which the knee cap is fissured react considerably more intensely as re gards the duration of symptoms as well as objective changes (B VALENTIN) JOHN W BRENNAN, M D

Wiles, P Flat-Feet Lancet, 1934, 227 1089

The author describes the deformity of pes valgus and discusses the mechanism of its production and the methods of treatment.

The normal longitudinal arch depends upon three factors (1) a relation of the involved joints which permits transmission of the body weight from bone to bone, (2) maintenance of the position by active muscular contraction, and (3) tying together of the piers of the arch by the intrinsic muscles

Per valgus is an eversion and abduction of the foot made plantigrade by elevation of its medial border with I volvement of the subastragaloid foliats. It originates congenitally in the authenic type of infant. It may become corrected when the child begins to walk or between the ages of for and sir years. In other cases, frequently those of persons with poor meacular tone, the valeus posture persists int adult life. Adults who have had good foot posture preriously may acquire valges feet as the result of muscular fallure and postural imbalance brought shout by illness standing, prolonged fathers an increase in body weight, or shortening of the tendon of Achilles

As per values is produced by everylon and abduction, adduction and inversion 1th lowering of the bend of the first metatarnal will produce a normal arch. This change is accomplished by a rotatory movement produced at the subastragaloid joint by one of the two folloring mechanisms

1 The forefoot and on calcis are moved in ard while the leg is kept still, and the intocing is cor rected by external rotation of the whole leg and foot

1. The forefoot and ce calcie are kept still while

the leg is rotated externally Lapedally the types due to muscular fallure require this treatment which in reshty comsists of re-education of the muscles so that the patient unconsciously inverts and address the foot and depremes the first metatarial head. The ordinary mechanical arch support biting up the laser border of the foot does not appreciably after the position of the subastragaloid fount and is therefore of hitle value. As rule defects of bodily posture, such as tiltung of the privat, and diseases of the nervous ratem must be considered and treated before the values as corrected. Shortening of the tendon of Achilles is corrected by exercise or operation

Patience and cooperation are necessary and over

correction must be avoided

In painful flat foot there may be scarlied or contracted interpseeous ligaments which require the breaking on of adhesions by manipulation and contimed motion to prevent recurrence

Reporter & RESCR. M.D.

Acadhetti, O. A Clinicostatistical Study of the Cases of Congenital Club-Foot Observed at the Rizzell Octhopedic Institute in the Period from 1899 to 1933 Studie disco-electrice se con di paede tort congesito ossen ti all'Institu teorebco Rusob dal Soo al 9 to (Am a ergent di morrimento 151. 0 55

The report is based on 2 35 cases of "lub fool representing 1,467 chib-feet. The statistics in worked out detail, shown by tables graphs, ad graps and compared with those of other uncerta gators. The andress are summarised as follows

Concentral chib foot as twice as frequent in makes s to lemake and more frequently belateral than quilatered. When I was undatered it occurred more often on the right side that the left. It

bilateral more frequently in males than in females It occurred on the right side more often in females than in males, but on the left side with equal fre quency is males and females

Per equinus varus supinatus was present in to per cent of the cases. It was more frequently offateral then unifateral. When unifateral, it or curred more often on the right side than on the left

Per takes releas occurred in 9 as per cent of the cases. It was more frequently beliteral than unlisteral When unlisteral, it occurred with equal

frequency on both aides Metatarson varus was present in a or per cent of

the cases It was more often unflateral than bilateral and occurred more frequently on the left side than on the right. Mixed forms were present to 5 t per rest of the

cases. The most common was equippe varies supmatter of one foot with tales valges of the other

The data are insufficient to permit conclusions as to beredity and familial occurrence

Distoris was reported with about the same feequency as in the cases of individuals fibout such deformities. The summittle field as said to have been normal in quantity in 31 66 per cent of the cases, increased in 18 18 per cent decreased in 40 53 per cent, and absent in 0 61 per cent. These per ceptages seem high, especially as objoby draussia is rather rare. The frequency of such records in cases of concentral club-foot indicates that such variations are of importance in the genesis of the deformities. \ temorthy also as the frequency of batory of podalic presentation ( 1 to per crat of the cases) Undoubtedly the position of the ferm m the terms and the consequent presentation are of etiological importance

Associated deformities ere present in 760 PC cent of the cases. The most coormon as coorsital dislocation of the hip, which occurred in \$55 Per cent, and the next most common, authors delors:

tres, which occurred in 1 00 per cent

The geographical relationships are interestor is the Procuses of Bologus congenital clob feet is more common in the flat regions than in the moun talnous regions. I the province as a whole the condition occurs in about "of every 1,000 labeletan's pumber of communes the correspondent but in Agure is 50 and la one comm ne lt is 5 Care occur in holated regions. In some regions no cases

he where observed for as long as thirty four years. Among congenital deformatics, clob-foot ranks second to dislocation of the hip and is followed by torticullis, the incidence of these 3 condition bend respectively 73 70, 18 81 and 17 per cest

The article is followed by bibliographs M F Mer WD

Lamy L. The Congruital Convex Latin For few concental concent Ball & to Ord Sec il cheruspiero de Pire 1934 16 44

In 1914 Nové Jouerand called treation to special anatomical ission of the congental f ( ) of which is different from that of the acquired flat-foot. When a lateral roentgenogram of a flat-foot of a child about fourteen years of age is examined, it will be noticed that the long axis of the calcaneum makes an angle of only 5 or 6 degrees with the sole of the foot, while in a normal foot this angle is 14 degrees The astragalus is depressed and inclined forward, and the cuboid is low at its anterior end In the congenital flat-foot the angle between the calcaneum and the sole is reversed, this bone being rotated so that its posterior end is higher than its anterior end, and the angle with the plane of the sole opens posteriorly The astragalus is also rotated or is tilted forward so that its long axis is almost perpendicular The scaphoid is in contact with the superior surface of the neck instead of the head of the astragalus The lower border of the skeletal structure forms a curve downward, the apex of the curve being at the calcaneocuboid joint The foot itself shows a large convex valgus bulge When seen from behind, the outer margin is higher than the inner and the tendon of Achilles makes a sharp curve inward The anterior part of the foot is abducted and the toes are contracted in hyperextension. The fixed, irreducible character of the deformity is striking The patient walks with difficulty and is easily fatigued.

The author has operated upon six children for the correction of this deformity. In the cases of five of them the operation was done on both feet. The first patient was nine years old and had been under observation since birth At operation on the left foot the vertical astragalus was exposed through an external incision and its inferior half removed, together with neighboring parts of the calcaneum, cuboid, and scaphoid To obtain correction of the extreme valgus deformity it was necessary to cut the peroneal tendons and lengthen the extensors Bone chips were placed in an open space in front of the external malleolus A plaster cast was then applied with the position of the foot corrected as much as possible. In the right foot the astragalus was removed completely with the exception of the superior cartilaginous part, but neither the peroneals nor the extensors were cut. The leg was advanced over the foot, and a somewhat better arch obtained than in the left foot The result was very gratifying The child was able to maintain a normal equilibrium, walk, run, and wear shoes of normal shape

In the case of the second patient, who was five years old, astragalectomy was done on both feet with a good result. To reduce the deformity it was necessary to cut the external lateral ligament. A similar procedure was carried out in the four other cases with good results.

The foot is placed in moderate varus for one month, and at the end of that time a light brace is made over a model of the foot Walking is begun at the end of two months Reports in the literature show that other surgeons are in accord with the author regarding the operative procedures. The necessity for removing the astragalus, sectioning

the external lateral ligament, and filling up the space in front of the external malleolus is emphasized

WILLIAM ARTHUR CLARK, M D

Browne, D Talipes Equinovarus Lancet, 1934, 227 969

Abnormal dimples are produced by the contact of bony points with the uterine wall and increased intra-uterine pressure. Talipes equinovarus is a bending deformity with pressure on the outer border of the foot caught in an unvielding position, with "metatarsal" and "extreme" varus of varying degree. Muscle atrophy results from immobilization, and the peronei and extensors are stretched while the stronger opposing muscles remain contracted.

Single deformities are never severe Bilateral deformities are always nearly equal

The equinovarus deformity favors the stronger calf muscles and, if untreated, becomes progressively worse, whereas the common calcaneus is self-correcting because of the excess of power of the calf muscles over their opponents

The author rejects the theories which attribute club-foot to nervous factors, arrest of development, hydraulic pressure, defective germ plasm, and congenital dislocation of the astragaloscaphoid joint. However, he admits that the hypothesis of a mechanical origin of the condition has not been proved.

The aims of treatment are natural use of the forefoot held at the correct angle of 20 degrees outward from the sagittal plane of the body and full range of motion in the joints Correction of the deformity of the heel follows naturally. The device used should not only correct the position of the forefoot but allow its use so that unbalanced and atrophied muscles will be aided

In the author's method of treatment the deformity is corrected by forcible manipulation into the opposite deformity of calcaneovalgus In the cases of infants under two years of age this is done with the hand, and in the cases of older individuals with a simple "nutcracker" vice which the author describes The procedure causes very little soreness After the correction, the feet are placed in aluminum splints or club-foot boots The normal foot is kept at 20 degrees with the sagittal plane and the deformed foot in calcaneovalgus This position is maintained by a horizontal crossbar between the legs The manipulation is repeated every two weeks Use of the feet is encouraged. Older patients are taught to walk with the apparatus

The author discusses the use of the Thomas wrench, tenotomy, open operation, plaster-of-Paris immobilization, adhesive plaster fixation, club-foot shoes, and fixation on the bent knee. He maintains that tenotomy and open operation are definitely contra-indicated. He believes that the results of his method in previously untreated cases are better than those obtained by other procedures

RUDOLPH S REICH, M D

#### INTERNATIONAL ABSTRACT OF SURGERY SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS, ETC.

# Bonnet and De Bourgnet; Indications for Ractif

there are the interface of the inclusive of reach and a rackety at these participations of the inclusive of the rackety at the second of the rackety at the second of the rackety at the second of the rackety at the ra

Rachisynthesis, or arthrodesis of the spinal col-Racmsynthesis, or artanocess or use spans, comming is method of surgically immobilisting a sec unm, n a memoro or surgeressy municomming a sec-tion of the spinal column. It may be articular or con or the stans; turning as may no accurate our extra articular or both. The methods of immobilize ing the spinal column employed herstofors—the use of the brattet ped continuous extension, and the or the passer bed, commission extension, and the plaster conset—are all more or less imperiert, timepasser consuming, and expensive Absolute firstion can be brought about by operation in a much shorter time.

crought about by operation has a main about time.

The operation most frequently performed in
Alber's rigid grafting. In this procedure the spinous Among right granting. An into processes of the disbecomes is enforced and the hearterns or ros oneases verterns or verterns and too verteres intro-distely above and below the letter are split. A graft the desired length taken from the patient a tible is then placed in the defits in the spinous processes and fastered by fixing a layer of muscle and sponen and taxtened by maning a sayer of minutes and approved rose over it. Variations of this procedure are used to adapt the operation to special conditions

The operation is indicated in severe scohools foltoo operation is minimized in several account and too forming infantile paralysis in which the prognosis ander ordinary orthopadic treatment is poor As a oncer trumary with the performed about two years after the attack of infantile paralysis. It is indicated in the strates or measure parayase at a management of the forms of accelerate which cusnot be contented by ordinary exposes with a tendency toward series an outlinery orthopedic treatment lucinging biodessatise against content of conference of the content of the tion, old rachitic achieves with a tradency to progress, and essential scolours which become norse in great and comment in the process of active pulspace or treatment as the branches of active branches ated upon, but after the toberculous lessons have acro apon, out size on tuberclasses seems in the spinal column in good position may be done and will improve the long goes to execution and to creek the selected and capacity the cases must be carriedly process and the operation performed at just the right time. In the operation presents at just the right time of chores, or tetames, a cure can be obtained by orthopedic treatment and operation is not indicated Operation, when necessary should be performed be tote Actions attitudes have persons madnered between

As general rule the spans graft should not be As general tone one spanish great amount not use appared that the result has trained and the court of the state of the preceded by orthogonal court of the state of the sta pedic treatment to bring about a good position The osteosynthesis will maintain the correction and outcompanions was manually the contention brought about by the orthopedic treatment, fix the acologie bracer of one of contraction to bet cent of cases improve the general common and the circulation, improve the general community and decrease the capacity of the lungs, and decrease tachy cardia and polypocea

The operation is indicated in spondylolisthesis and in closed traumats of the spansi column inputations of the shared column in About carping if a indicated only exceptionally as (may interfere with growth. However, in high consticut and sop-

occipital lesions it may be necessary as a his raying measure. It is indicated absolutely in the case of meanire. At its interested associates in the case of patients bettern find therefore your of age. bettern our consumers and out-the-statement but fractively in the cases of patients paraces many and only exceptionally in are any may years or age, and only exceptions are cases of patients more than fifty years old Messart, M. R.

AUDREY GOM MOROLY, M.D.

sacro Daque) Ball, at min, Sac a champion & Secre-line Surjey (Charge

Unite most joints, the secro-like joint is formed combryologically by the juxtaposition of its boay emits of the than by accromation in the loss emits of the transfer of the tran systems rather than by vacuoussitos in the rose The thin band of these separating the bone form the articular cavity. The physiological adaptation of this joint to the upright position as not complete the pour fixation of the section to the pairie pro-And your measure or use section to one pays pro-tise to numerous anatomical assomabes and one tional disturbances. When the cause of central forms of acologie is sought the same or critical should not be ignored. The line of the articulation many pe so oppiding that the settle shine get f remay on an ounspot that the marks space are that sages with the perpendicular axis of the pelvis. The regults in a low lumber accident such as was found by the uthor in child ten years of age. In this case by pervice ring was not completely closed in the the POTE. THE WAR DOT COMPANIES COMES IN the SECTION OF the pelvis was proposed

Secration is observed rather frequently II h similateral it may become a verifable introduce Firstion of the secrum on the privile by bilitari arthrodesis or bone grafting will correct the poor attitude and indiews the symptoms

A hypermobile sacrum will came symptoms and a disturbance of symmetry is the humber spine. In the case of a girl of sourcem years this condition was cured and a himber acologie was straightened out by surgical firstion of the sacram Byperson bility due to trauma III smally correct that is time without surgical intervention

Tuberculous of the sacro-like joint is a positive indication for surgical arthrodesis. The introduction of a transverse graft from one flum through the sacroun to the other flum was first reported by the author in 03 and since then has been done ith success by others. The author has performed the operation on more than twenty patients. Walking is allowed after boot three months All of the results indicate that this extra-articular tribil graft

WILLIAM ARTHUR CLARK, M'D.

#### Bristow W. R. Results of Operations on Paintal Hipe. Ann Sury 914, 00 041

In cases of paneful hip persistence of the pela and progressive deadling deformity are the two hades positions to making occurring are the law tools for the following the concerning measures have failed. The re-operations to be on actored are arthrodesis and arthroplasts

In thirty-five of forty-two cases in which arthreplasty as done the pain was releved, but the range

of movement remained small and the patients had a decided limp. Of fifty-six cases of non-tuberculous arthritis, arthrodesis resulted in a stable hip in thirty seven, and of forty-five cases of tuberculous hip, it resulted in bone fusion in eighteen. Arthroplasty fails if an active infectious process is present, and the presence of such a process is often difficult to determine. The results of arthroplasty cannot be predicted. This operation should be done only when there is a definite indication for mobilization of the hip joint. The results of arthrodesis are predictable, this operation therefore being generally the preferable intervention.

CHESTER C GUY, M D

Huet and De Fourmestraux The Treatment of Suppurative Arthritis of the Knee Exclusive of War Injuries (Trattement des arthrites suppurées de genou en dehors des traumatismes de guerre) J de chir, 1934, 44 537

The authors omit post-war injuries from their discussion as these represent the most virulent type of suppurative arthritis. They state that suppurative arthritis of the knee is rarely a metastatic arthritis of hæmatogenous origin. In almost all cases it may be traced to a surgical cause. The most common causes are puncture wounds, surgical intervention on the knee joint for meniscus removal or the introduction of a Kirschner wire, osteomyelitis with erosion of the articular cartilage, and penarticular suppuration such as occurs in prepatellar bursitis Two types are to be distinguished—an articular empyema (Volkmann's purulent synovitis) and a capsular phlegmon In the former spontaneous healing may occur, but in the latter the prognosis is unfavorable as almost always there is complete loss of function In the empyema the physical signs are almost all localized and motion in the joint is impossible because of the muscle spasm. In cases of capsular phlegmon the muscles lose their power of splinting and there are marked constitutional symp-

The operative procedures include puncture with a needle or trocar, with or without lavage, enlarged punctures, arthrotomy with or without drainage. synovectomy, the Laewen operation, resection, and amputation. Treatment with vaccines, bacteriophages, and specific sera has also been recommended. The authors believe that in the cases of adults puncture should be done immediately and if the temperature does not fall arthrotomy should be performed The arthrotomy should be sufficient to permit adequate drainage. In cases of empyema, active motion should be instituted immediately and if it is too painful should be facilitated by the use of novocain In cases of the phlegmonous type immobilization is indicated In the very severe cases in which immobilization does not result in restoration to normal or at least a reduction of the fever, joint resection should be considered. In the cases of infants, in which resection is impossible, synovectomy or temporary disarticulation should be done

WILLIAM C BECK, M D

#### FRACTURES AND DISLOCATIONS

Houdard, L, and Judet, J The Value of Modern Methods of Osteosynthesis by External Fixation in the Cases of Adults (Valeur des méthodes actuelles d'ostéosynthèse par fixateur externe chez l'adulte) J de chir, 1934, 44 673

The authors state that the method of holding bone fragments in place by nails projecting through the skin fell into disrepute because of various difficulties. They believe, however, that the difficulties can be overcome and that this method is of great value as it provides nigid fixation without the presence of metallic substances in the immediate region of the fracture. They do not believe that the nails favor the spread of infection from the skin surface to the bone.

They describe briefly the techniques previously used, especially the method of Boehler Boehler places a metal guide on the reduced fracture for the introduction of the screws and uses a special clamp to hold the bone fragments and guide together After the screws have been inserted and bolted to the external plate, the guide is removed. The difficulty encountered in this method is the application of the guide to areas where the bone is flattened out or curved or the maintenance of reduction is difficult Therefore the authors now employ the method devised by Judet. In this procedure, which is based on the same principles as that of Boehler, the external plate is used as a guide for the screws. The clamp holding the fragments reduced is therefore undisturbed during the application of the screws and the incision need not be so large. The authors do not describe their technique in detail, but state that the screws must be placed as far as possible from the site of the fracture except where a loose fragment necessitates direct fixation. The screws must go into the opposite cortex, but should not project The apparatus must be so placed as to avoid the neighborhood of important nerves and blood vessels No plaster should be used The patient should be encouraged to move the adjacent joints The screws are easily removed after the fracture has healed The authors believe that this method may be employed for cases of pseudarthrosis and compound fractures

They report twenty-seven cases and include in their article a number of roentgenograms showing the apparatus

BARBARA B STIMBON, M D

Fèvre, M, and Dupuis, P The Treatment of Irreducible Congenital Dislocation of the Patella (Traitement de la luxation congénitale irréducible de la rotule) J de chir, 1934, 44 833

The authors state that an extensive joint operation is necessary for the correction of irreducible dislocation of the patella. In Europe the procedure of Roux with various modifications has been most widely used. This operation, which involves transplantation of the entire extensor apparatus of the knee joint and replacement of the patella in its correct position, leaves a considerable defect in the

1

external capsule of the joint. Many methods have externst expense or the joint, alray methods have been proposed to close the defect. The authors employ the method of All Kroudus as modified by emptoy the method of All Artigins as insulated of Lectine. Their tachnique is in effect. combination tecame, their iscumines as in circumstation of the operations, the procedure of Roux followed by the Action modification of the Ab Krogim opera by the Levens monuncation of the All Artegins opera-tion. It consists of the following six steps: ( ) incl tion, it consists of the following act steps ( ) and side the formation of a cuts recording ( ) com sion and the formation or a cutaneous map ( ) turn plete liberation of the patella (g) the formation of a pete merauon or the patents (1) the memation of a capsular and muncular stap by the All Krogitsbecome method (4) firstion of the anterior tuber tecture metators (4) distance in the american times only of the tible is such a way that the axis of traction on the extensor apparatus is correct and fraction on the extensor apparatus is correct and extension and fection of the knee at possible (5) a catenana and measure is the attest at possible (3) a passed operation to a next the expense and mus-cular flap is passed above the patella to hold it and is used to repetir the defect in the external expense and (6) hemostasis and closure of the wound.

and (9) nemocians and coosing or the wound.

Postoperatively the would is frequently and care
fully dressed to maintain the vitabity of the cuts tony overset to maintain the virtually of the cause necess day. The key is immobilized in a light appa necess day the key is immobilized in a light appa ratus that permits frequent dressing. Care is taken

to avoid continuing the immobilization too long to avoid continuous the immoontation too seek Fastere movements are negan to the tents our in the condition of the skin dap is good, and are fel the concussor or the sain map is good, and are in loved by actif e movements without weight being wasting is began bet can the t catteth and venture is occur per cen use t causen and thirtieth days. In this w y selfaces of the foliat is

The operation should be done when the dulors the operation around no occur when the dutor ton begins to came definite functional disturbance and before arthritis develops. As raise defauts and occurs accuming torrespe to frac tensure eight years

and years.

The authors report to cases in which they per The authors report re cases in wmen tasy per formed their operation. The patients are caldens edition operation and particular or constraint and edition and a half a test bettern one constraint. the time this report was a setter, as and there the time this report was written, ar and there months respectively after the operation, both of the children were walking easily although some assion cummen were wairing casary among a some assasses as a some case the gut was entirely normal. In the other there as a triple was entirely normal. In the other there are separated totalloo, but this are gradually distillating

AUCE M METER MD

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

# BLOOD VESSELS

Migrating Intravascular Projectiles Curtillet, E (Les projectiles intra-vasculaires migrateurs) J de chir, 1934, 44 715

The authors report a case of migrating intravascular projectile, review the literature, and discuss the history, mechanism, pathological anatomy, clinical features, and treatment of this form of embolism

The case reported was that of a man who had shot himself in the epigastrium with a revolver in an attempt at suicide Because of the patient's state of profound shock and the absence of the usual signs and symptoms of intraperatoneal damage, expectant treatment was given. A roentgenogram re vealed the bullet at the level of the head of the left femur In the course of a few hours paralysis of the left lower extremity developed On the basis of the single roentgenogram the bullet was assumed to be located in the gluteal region. Following the development of abdominal rigidity laparotomy was performed After repair of a wound of the liver no other source of hæmorrhage could be found and the absence of a retroperatoneal hæmatoma seemed to preclude the possibility of a vascular lesion Recovery from the operation was uneventful. In addition to the paralysis of the leg there was total insensibility to pain extending medially up to the level of Hunter's canal and laterally to the calf of the leg This was bordered by a zone of hypæsthe sia two fingerbreadths wide. Loss of tactile sensation was more discrete During the following days the paralysis and sensory disturbances gradually regressed The patient left the hospital on the twentyseventh postoperative day suffering simply from weakness of the leg Three weeks later he returned because of lancinating pain in the leg and a sluggish burn on the dorsum of the foot Roentgenograms made at that time revealed the bullet in Scarpa's triangle where it could also be palpated. At operation under local anæsthesia the bullet was found within the femoral artery at the level of the deep femoral artery Here the vessel was hyperæmic and swollen The bullet was removed and the artery sutured Recovery was uneventful A month later the sensory disturbances had disappeared completely, the burn had healed, and only a moderate muscular weakness remained.

The first case of this nature recorded in the literature was reported by Hammick in 1840 before the Royal College of Surgeons The second was a case seen by White and reported by Bland Sutton in The third case was reported by Schloffer in Since then the condition has been reported more frequently, largely because of the World War

It was discussed from various aspects in the theses of Forthomme and Fritsch published respectively in 1918 and 1920 and in recent articles by Achard and Binet, Piedelievre, and Martin

In thirty-four collected cases the bullet entered the circulation through the heart, one of the large arteries or large veins, or the superior longitudinal

sinus

According to one theory, a bullet will remain in a vessel only if the wall of the vessel opposite the perforation is in contact with bone. However, reports show that this is not always the case and it is possible to assume only that the bullet passes through one wall with insufficient force to penetrate the opposite wall. According to another theory, the penetration of the vessel wall is only partial and the blood current, by tilting the bullet, causes it to fall into the lumen.

The migrations of the bullet are extremely variable When projected into the greater circulation through a wound in the heart or aorta, a bullet finds its way most often into the left common iliac (ten of fifteen cases), less often into the right common iliac artery (four of fifteen cases), and rarely into other branches (the axillary branch, one case in fifteen)

In the venous system gravity determines in some measure the migrations of the projectile. The bullet usually enters one of the venæ cavæ and after several days reaches the heart In one case it entered the right auricle and later was found in an iliac vein In another, it passed from the subclavian to lodge in the inferior vena cava by way of the right auricle Grandgérard saw a bullet pass from the right auricle to Scarpa's triangle and then to the iliac fossa. In a case reported by Walcher a bullet entered the superior sagittal sinus, passed into the lateral sinus, and lodged in the jugular foramen. Rarely, a projectile reaches the pulmonary circulation through the right heart or reaches the left heart after having entered a pulmonary vein.

When a projectile enters the right ventricle it usually remains there When it enters the left ventricle it is expelled by the ventricle into the

general circulation.

Unless the heart is reached, projectiles in the venous circulation cause few or no signs whereas projectiles in the arterial system promptly act as

emboli and should be treated as such

The chincal signs of intra-arterial projectiles are those of embolism, namely, sudden pain in the leg with cyanosis, coldness, and usually paralysis and loss of sensation The subsequent development of gangrene depends upon the condition of the arteries and whether propagation of a thrombus occurs Trophic ulcerations are common

Projectifies in the right heart give rise to prerepresents in the tight next five the to be critical pain which is increased by movement (Duval carnat pain want a increased by navenant (vivial and Barnaby 1918) or to sensation of Oppression and impending death with facial pallor. (Osboyre, and imperating death with mouse peaks (Construction 1918) When they are discharged into the hing the

1918) When they are discharged into the ming the usual signs of pulmonary embodism popear.

The prosposes of intravascular projectiles is diffi-Air proposes to intravanta provide a cult to establish. In the cases reported the mortality which the barriers upon of bulmoustA cusposition was sport to be case in the cream reference me mannered to be case in the case reference me manner to the cas waren the patient used of pulmonary embourant (Fry's case cited by Bland Setton, 9 9) the deaths were unrelated to the migration of the projectule

are unreasure to the nugration of the projective. The treatment of arterial embolism is arteriotomy And attenuents or account someoness is activations with autors if the arterial wall is relatively normal or Battled and reserved of the involved segment (Lersche) if the arterial wall is demaged

Projectiles in the venous system should be promptly removed because of the danger that they promptly innaven occasion or use unique one use, may reach the heart. In the interval before treat may reach use ment in one ameryal octobe uses, ment the patient should be prevented from lying in completely recumbent position. After the procompetery recurancest positions of the surgeon in recure has rescored the figure neart the surgeon in powerless. Attempts at removal have always been partitions. Attorneys at temporal mave simays pool fatal (Debayre, 918) Alexan P. Dz. Groat, M.D.

Continues, X. J. and NewBern, J. Results of Arteriography in Diseases of the Arteries and Arterios and Arterios and Arterios and Arterios and Tomors (Posições résidités de l'Artiriographie annua (gosques resultes or alternagoques dans les afactions artérodes et les temests). Pritts

The study of arterith by arteriography is only one The study of arterior by arteriography is only one of the possible case of this new procedure. Arteriog tably may prove to be of value as functions arranged to the province and the province of the province are provinced in the province are provinced in the provinced and provinced in the provinced are pr the method. Its technique has been perfected to a ne mennou Aus tocanaques ous ocus persecteu to a high degree by Reynaldo Dos Santos, but the ideal aga occurs by responses two centers, our tac research contrast medium remains to be discovered. At the contrast menutar remains to no inscription at the present time two types of substances are used. (1) takenic rough babeaupous arches are man (1), ahodil, and tenebry l, the injection of which is punancount and depositates the induction of general annuthesis, and ( ) thorotrast, the injection of which is transaction ( ) transcribers, the infection of which is performed by simple transpartitions and can be accompanied by sample transcaraneous penceurs in the early cases in word the authors have used thorotrast they have noted no ill effects However thorotrast is not prumpely elimienergy approximation and promptly enorghing the residuo-endothersal thence and became of its alight radio-active property may eventually have an injurious effect. For this reason caution a indicated in its use

he this article the authors discuss the use of arteriography only for the study of semic arteritis, arterial embolism, and tumors

In settle arteritis the extent and degree of the yascular letions vary from case to case However in commission of the reentgenograms one is strock by the different and belateral distribution of the oy use concason and peatern manmation or the known Both the principal arterias and collateral vessels are involved. The arterial image loses in regular contours and curren, bocomes torthoon, and regular convents and the large of the large second a varying operaty in parts, on manes or completely obliterated Below the sit of a complete oblitera

tion only the collectral circulation frames blood tron only the constraint creaminon means to com-supply to the Hmb Arteriography reveals also be frequency of the agreemental obsteration of arterial ferming to which Lexiche and others have called tention and below which the venues again be-

Arteriography is of special importance in the demonstration of collected circulation

microstration or considerat circumstant. In studies of the circulation of the limbs it yields information as to the tockity of the vascular walk

Fallure of injection algunder functional failure bet not necessarily anatomical obliteration The authors have compared their arteriographic

findings in ten cases with the findings of other anomals in our cases with the manage or own-methods of exploration such as oscillometry and the cutaneous visiodilatation test. In cases of cr the cutations vandamentation was in cases or to fensive obliterations in the thigh and lag, outflows. traver conscretants or the sugar and the state of the properties factor panels as aboution of pulsations in these two parts of the hmb. However, this may occur in very different amo, movement, time may occur in rely manufactions for example, with gaugeness or when Association is betterfly combined on age vacuusianuos is periecus compensatu ur ta-lateral circulation, without any trophic disturbances designation with the condition of the co tion of the collateral circulation or the trophic con dition of the limb. The results of the cutanous vasodistation tost are not always reliable as advancountratum con are not aways continued after a give Assessor totomer

The information obtained by arteriography with regard to the circulation of the finish includes. () the stistence and size of arterial obliterations, the systems and size in arrenas contractors, i.e., the extent and distribution of parietal lesions, and (3) the condition of the collateral disculation Walk out doubt, the many facts revealed by arterography atth tellard to the circulation and assembliation of what reperts to the incommon and various the and, in whom arieral lesions are very diffus, contrathe methods re rarely indicated and her aspets tion becomes necessary arteriography ill perset the most economical operation in adequately normalist

In a case of embolism in two primary line articles the authors were able to locate the site of the cubok accurately by means of arteriography Suci localration is an important aid in the determination of the ate of intervention. In certain case the aethod may be of aid also in the dismost of arteral enbolism, in which oscillometry and the veschiaterion test have proved inadequate By correct localistion of the embols the surgeon is embled to choose a direct route of percent to the site of browness and thus wold in any to important vascular regions and save the pattent strength

Arteriography may be found of value also in the differentiation between arterial embolism and parendo-embolic obliterating artentis Is artensi embolism the outline of the obliteration is clear. In pecucio embolic obbiterating attentile it h irrequir and often progressive In embolism, contient deculation requires certain length of true to become established In pseudo-embolic arteritis, on the

other hand, the progressive course of the disease permits the establishment of a collateral circulation before the symptoms of sudden obliteration develop and may demonstrate other lesions of an arteritic

type

The authors report the findings of arteriography in three cases of tumor of the soft tissues (a myxosarcoma of the arm, an endothehoma of the humeral vessels, and a sarcoma of the thigh), a case of myeloplaxoma of the tibia, and a case of tumor of the adrenal cortex. They state that in cases of tumor of the soft parts arteriography does not give sufficient information to obviate the necessity for biopsy in doubtful cases. Therefore its value is quite limited. In their case of tumor of the adrenal cortex it showed the vascularization of the neoplasm very clearly. The irregular and angular conformation of the arteries and the presence of veritable pools of blood led to the suspicion of malignancy.

In conclusion the authors state that while arteriography does not yield reliable criteria of malignancy in cases of tumor of the soft parts of the limbs, they believe that aortography will prove to be a very valuable method for determination of the topography and nature of certain tumors occurring in the abdomen

EDITH SCHANCHE MOORE.

Koukine, N Problems of Etiology, Clinical Findings, and Treatment in Endarteritis Obliterans (Problèmes d'étiologie, de clinique et de traitement de l'endarténte oblitérante) Rev de chir, Par, 1934, 53 639

In the course of the past seven and a half years the author has seen seventy cases of endarteritis obliterans. This disease develops in young persons with a labile vasculonervous system as the result of various exciting factors such as cold, intoxication from tobacco or lead, trauma, and infectious diseases. Buerger's form of obliterating endarteritis is more frequent than is generally believed and sometimes begins suddenly and progresses rapidly. In the author's cases of this condition blood cultures were negative

In obliterating endartentis the blood pressure is normal or lower than normal, the viscosity and coagulation time of the blood are increased, and the number of thrombocytes is decreased. Oscillometry is a valuable method of examining the arteries. It shows the nature of the lesion, the functional capacity of the vessels, and the upper limits of the disease process. In the great majority of cases capillaroscopy reveals primitive, undifferentiated capillaries and a spastic-atomic condition of the vascular system.

Of the conservative methods of treatment, diathermy and sulphur baths give the best results. The treatment of choice is bilateral lumbosacral sympathectomy (the Diez-Lampert operation). The indications for operation are based on the findings of oscillometry and capillaroscopy, by means of which a differential diagnosis can be made between organic and functional disturbances.

The results are best when the operation is performed early in the disease. Of the author's cases which were under observation for a period of three and a half years after the Diez-Lampert operation, good results were obtained in 84 per cent. The results are improved by bilateral removal of the lumbar and sacral sympathetic ganglia. Koukine performed an amputation in eighteen (26 per cent) of his cases, but in recent years has amputated much less frequently. In endartentis obliterans, circular amputation is the method of choice. Amputation is indicated when gangrene extends to the anterior part of the foot, the patient is very emaciated, and other methods of treatment have failed.

The prognosis depends very much on the kind of life the patient leads after the operation Cold, the use of tobacco and alcohol, trauma, the wearing of too tight shoes, and infections should be avoided

AUDREY GOSS MORGAN, M D

Herrmann, L. G., and Reid, M. R. Passive Vascular Exercises. The Treatment of Peripheral Obliterative Arterial Diseases by Rhythmic Alternation of Environmental Pressure. 4rch. Surg., 1934, 29 697

After a review of the history of the use of active and passive vascular exercises, the authors describe the mechanical features of the Pavaex apparatus which has been constructed for their use in the Vascular Disease Chinic of the Cincinnati General Hospital A simpler form of this apparatus is now being manufactured commercially for use in the

home, office, and small hospital

The authors state that all therapy for obliterative vascular disease should be directed primarily toward the establishment of a collateral circulation of sufficient magnitude to furnish proper nourishment to the distal portion of the extremity. Rhythmic alternation of the environmental pressure about an extremity can be brought about automatically by the Pavaex apparatus. Treatment with this apparatus is essentially a mechanical means of performing passive exercises of the vascular system. In cases with marked obliteration and impending gangrene of the distal portions of the extremity it is necessary to hospitalize the patient and give 4 or 5 treatments every day until the circulation of the foot shows definite signs of improvement.

Up to July, 1933, a total of 3,769 treatments with the Pavaex unit had been given. In the cases of the 51 patients whose cases are reviewed in this article over 3,000 treatments were given. While calorimetric evidence of an increase in the circulation in the distal parts of the extremities occurred in all of the 51 cases, 13 73 per cent of the patients received little or no relief from their symptoms. Forty-four (86 27 per cent) of the patients were greatly bene-

fited

The authors are of the opinion that if a permanent increase in the circulation is to be established the treatment must be carried out over a period of many months

HERBERT F TRURSTON, M D

Montemartial, G.; An Experimental Contribution to the Surgary of the Inferior Vena Cara (Costo the outputy of the interior term cars (to Indicto specimentare and commission versus Inferiore) Paledia Rosse, 934, 4 503

Successful resection of a portion of the interior SUBCREASE INTERCEDING OF a POST-JOH OF THE TRIVETON WITH CRYA WAS SIRE GODE IN 1891 by Bottlei during the removal or revertebras tumor nortum method as gradually adopted, but the outcome nernon as gracining assessment out the seasons as not all aya favorable. The patient survived

as not at ays tayorance the feature services only when conditions favored the formation of an out) when common awares use summand of an adequate collateral circulation. When light for was anequate constern circuation )) hen against was done middenly complications invariable supervised In experiments on dogs, Montemarism found that in experiments on temp, atomic merrim round that a hen the inferior vens cave as Egated below the

a hen the interior vens cava as injected occurs toe the anuria was followed by considerable output intermediary products of urea metabolism, uric I intermentary products or uns metacourses, une acid and chlorides [1] pergl) cernia and gli cosuma and and construct.

(1) perp) comin and g) construct and the arine contained bile parameters. and casts. The disturbance of hepathe function and and cases are uncommon suggested by those findings a ere demonstrated by histopathological studies

Ligation of the ens cave above the renal cites as followed by anutia, trea retention, and hyper as some of a second of the sec g) cerms its courts in from six to cash nours the hatological findings included degenerative processes in the kidney and liver tasts in the specin and in the skiller) and siver tand in the specie and the mocrosa and submiscosi of the small intestine, stone and supprocess or the small interesting. Independent toward panetratic degeneration. The latter housever may be been due to post mortem autodigestion

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of the renal venne caused acute symptoms of reten too accompanied by parench matous degeneration box the level of the beloays and ever followed by death I kee on the autosys and ager manning or ocean 1 am marked atenous there as stamp ith brief impair ment of sepatic and renal function

near or mepatire no revisi runction.

Lateral acture of the year cava bove the renal rems as followed by the sensal transition dust the ances (b rapid return to normal

Housans, J. Thrombosis of the Deep Veins of the Lower Leg Causing Palmonary Embolism. Ver J. Hand. Med. 914, 901

The uthor describes form of enous thrombous yety peting as local beoccas in the notinal not tree come measures was on coons emorement nan occurs as and provide in the name of income deep case of the lower leg and frequently

leads to fatal pulmonary embolism, but may be recognized is its early stages and cuted

This deep peripheral venous thrombods runs a nam overp perspectas venous tenomieros uma e pecalla course. It begins with Variable amount of peculia course it begins with variance amount of decomfort in the call swelling of the antic, and Campanitary is the cast swering or the sales, and bineness of the foot—signs which reachly disappear otherwise of the most sugar a same training complete. Done rest in bod, but re-press over and over specific following on of the less it is hard to be result of elevation for only a butter that as can result to the sales of an extensive deep thrombosis can which is the sales of an extensive deep thrombosis can pecome so nearly or completely notarily in silicing and the same or an extremise next next series of an extremise of the same are or an extremise of the same are of the same sections in security to compactify secure in oppositions. At autopey in fatal cases a remarkably wide extend (picomposes of the Acards among the march of the calf of the kg has been demonstrated In or trae can or two are one occur or movement of the can or two are one occur or movement of the can or two are one occur or movement of the can or two are one occur. every user the tensoral vein was unascriptive and the cause of death was the detachment of condithe cause of course was the detailment of towns early fragment of a commonst long bacters current

The author emphasizes that other forms of view in the blood thrombophichids ar different from this faul form Thrombophichitis in various veins is more commes It is related to discused tate of the result at At as retained to disseased date or the states and The reaction is usuall huntred to the region of the and the leg as a whole is not swollen. The clot is usually quite cliffixed and is rarriv detached

is security during the traces and in factory personance of the security that is manify associated th thrombo anglits oblicana, small) aperfect and pever followed by extensive thrombosts or saed and ocycle tomoreti by extensive introduction of sections of the high Thrombophlebith of the milk type phiermania alba dolena, is primarily a peivic process though the thrombouts may crited

peripherally for a long distance. The whole leg is other The swelling may pendet from wret to screen months and is fittle affected by rea is bed There is als 3 tendersess over the deep vende at the group. The suppersons were one only vision in the group. may be dilated because of acting as continuing Embolam is uncommon because the process is pozimil an inflammatory process than the rection on sheath life renders the threabast adherent

The explanation of the peculia behavior of pd many thrombons in the call depends somethit or anatomical and somewhat on chargestations as the cast opposite the factors throng the muscles of the call there is a large net ork of seems all I which drain into few family large casels box the large Danag real stant of these veins to stagnant or comb but when the call muscles are put int use they are as path for full-capacity circulation. Because of the bous may be present but not manufacted ben the seg is not in active use. The progress of themptons

a these stagnast parts tops only when the three bus meets Jet billed th blood. When the free end of the thrombes touches the current of higher easy of the empt) read not unliked to become fixed t the beatity all of this on particularly the current is rapid, but he comes diagerous propagating thrombia. In sale tion the spaceting action of the call months above

threatens to push the end of a long clot into a larger

vein at one point or another

The author reports four cases Two of the patients, who had an extensive old thrombosis in the muscles of the calf of the leg, died of pulmonary embolism. In no case were there any signs or symptoms suggesting phlegmasia alba dolens. In three cases the disease began after a trifling injury, and in one case with signs of acute arthritis. In one case ligation of the femoral vein in the groin was followed by prompt recovery.

Although some patients may recover under treatment by immobilization or perhaps only rest in bed, the author recommends ligation of the femoral vein as soon as the diagnosis is made to obviate the danger of embolism. The point of election for the ligation is just distal to the entrance of the saphenous vein but proximal to the profunda, where the great

saphenous will act as a collateral

Maurice Meyers, M D

## BLOOD, TRANSFUSION

Jones, H W, and Tocantins, L M The Treatment of Hæmophilia J Am M Ass, 1934, 103

The authors state that, in view of the prominence of the hereditary character of hæmophilia, an effort should be made to control the spread of the condition by eugenic methods However, in certain cases, the occurrence of hamophilia is familial.

The number of children in a hæmophiliac family is considerably greater than that in the average American family

Prophylaxis of attacks of bleeding is attained by the avoidance of trauma and by proper preparation of the subject before he is subjected to operative procedures

The best method for the prevention and treatment of acute attacks of bleeding is the intravenous transfusion of unmodified blood. Citrated blood has a similar effect, but has been found by the authors to cause reactions more frequently. The intramuscular injection of whole blood has seemed to benefit some patients. Fresh serum is a satisfactory local hamostatic agent.

Therapeutic measures which diminish the venous clotting time and do not lessen the bleeding or which increase the bleeding should be avoided

The use of special diets and of endocrinotherapy

has been disappointing

In the cases of three of the authors' hæmophiliac patients, two of whom were going through an acute phase of bleeding, intradermal injections of antihuman platelet serum were followed sometimes by a marked decrease of the venous clotting time but did not cause prompt and permanent cessation of the bleeding

HOWARD A McKnight, M D

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TRUMPIQUE; POSTOPERATIVE TREATMENT Elisaon, E. L. and McLaughlin, C. Postoperatire Complications. A Sury Old. to

The authors have made a detailed chincal study the suthers have made a detailed connect study of the postoperature wound complication, which commend as Service Service of the fingulated of the occurred on Servical Service C of the Hospital of the Principle of Principle and the Hospital of the Principle of the Service Service of Servic wounds were classified as at 197cs A, B and c woman of Type A air characterised by serim col-actions or mison institution which do not delay construction of music manufacturers and received on music manufacturers across to an arrangements across so soil occurcorrespond to the part of Type B are those with the conready it comes on type it are those with countries the integrity of the would or materially delay conthe integrity of the works of Type C are those with rap time or injection installing the ant-trails of crossing Arrays on 1256 C also roose and the Arrays of 1256 C also roose and the Wound complications of Type A cocasistated 7 6

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The arran collections manally tony 550 per cent the serior concertions unany, speed between the 56th and earth postoperature Appear octaves the fifth and earlih postoperative that The temperature rises to bette seen so and so it depends a such and along the line of the include there is not seen so and so it does not be included there is not seen as a such as defined t and along the match sering emices when an res of solvening from which wrom conder when the effected site as probed. Healthy occurs rapidly Completions of type 30 composited it 50 per cent that the total significant control control control control. of the total number. They occurred most inquentit states bornborthephy and a prenderiony. They are characterized by modula Prenderiony. They are born to the control of the characterized by reddish inflammatory reasons one or more thin solute. Is 30 per cent of the cases are reddished evidence of infection are possess. before the exth postoperative day. The organisms

before the airth postoperative day. The organicus formed most frequently on culture the the bacillion of the postoperative states, and staphylococcus areas. And staphylococcus areas, and staphylococcus areas. con scappysocrets sarries as scappysocrets along the complexition was treated by section of atous the opposition of hot are designed and the secure, the plantation of the wound offer Conresources was prolonged for an entropy caper one and there-observed was The incontinue of Postoporative there-outers day. The incomes of postoperative harms, as 6 per cent. Parton favoring inference of of this type are (...) mass fusion of fat. () the use of the contract of the of we exceed a smooth of carlant (2) pales results of the carl of an excessive amount of categor (1) sarpe areas.

(4) unnecessary subcutaneous stricking (5) infec (4) uncertainty superindents entropy (3) inter-ting by the scaled used to make the stan inciscon (6) injection carried by the operating room per

somel, and (8) inadequate protection of the road

scient, and (8) Independs influence of the world class during removal of the pathogenal According 1 ound complete from of the pathogenal According 1 ound (1) ound (1 is on an example and an experiment to a superior of the lotal amber reviewed. The heckest per tent of the total omies tenanes for the opening to grave notice and the say segment and segment of the extremities. It was particularly hope is the on the extremities. It was particularly lead to case of disbutics. The interaction consent of all with interaction consent of all with internal and wide special contents. The consents of the special contents and with a particular contents and contents are contents are contents. tion of the county selfer. The calendar son are short the county selfer. The calendar son are short the county selfer the calendar of the calendar son are short the calendar son are s presents on culture are the rebylancem season season season to one of the other season season

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incomes assessive cape accountry section, a commentation in done as soon as the patient has more aurysame, is done as soon as the Petrest has more and from the immediate shock of the wood spiter and there is no employee of infection in the round the cases so tracted the mortality has been 3 per tends of the chief came of death was performed to the chief came of death was performed to the chief came of the chief came of the chief came to the chief came of the chief came to the chief came of the chief came While the factories of death was personne affective take method than after immediate second Addresses the method than after immediate secur-ary unlaw, the authors prefer the former procedure as they provide a discover procedure in the par-ticul anticy over the authorities of the parties of the international procedure of the parties of the national procedure of the parties of the parties of the national procedure of the parties of the par

Mana, U. Boyca, F. F. and McFettidgs, E. M.: Postoparative Evacuration And Say 1986

followed an operation for appendicatis Only 20 4 per cent of the total number of patients were over fifty years of age Eleven of the incisions were made in the upper portion of the abdomen, sixteen were made in the midline, six were McBurney incisions, and the rest were miscellaneous incisions. In one case the evisceration followed the repair of a direct inguinal hernia in an obese female The anæsthesia and the length of the incision were not regarded as of much importance in the causation of the eviscera-

In thirty-nine of the cases the incision was closed with a continuous suture of catgut, in three, with an interrupted suture of catgut, in one with an interrupted suture of linen, and in one with an interrupted suture of silkworm gut The authors conclude that rupture of the wound is possible following the use of any type of suture material and any type of closure, including the use of retention sutures Secondary closure was done immediately in thirty-six cases. In eight cases it was deferred-in six, because of gross infection and in two for reasons not apparent. The mortality in the forty-four cases was 26 25 per cent It appeared to have no relation to the type of secondary closure

The authors suggest more general adoption of the

silver-wire technique devised by Reid

ROBERT ZOLLINGER, M D

## AN ÆSTHESIA

Cardia, A Clinical Observations on the General Reactions of the Body to Ether Inhalation Anæsthesia (Osservazioni chiniche sulle reazioni generali dell'organismo all anesthesia eterea per inalazione) Ann ital di chir, 1934, 13 745

The author believes that consideration of the effect of ether anæsthesia should include a multiplicity of factors. In the cases of thirty-two patients with various maladies he studied the blood and uri nary changes for a five day period before and after operation performed under ether anæsthesia induced by inhalation His findings were as follows

The quantity of urine was decreased in the majority of the cases immediately after the intervention (first two to three days) and then returned

to the pre operative state

2 In thirty-one cases the urea increased The increase seemed independent of the quantity of the anæsthetic and directly proportional to the type of

disease and the gravity of the intervention

3 Of twenty-five cases in which the non protein nitrogen was studied, twenty three showed an in The increase was independent of the quantity of anæsthetic used and in direct proportion to the type of intervention or the disease process. In hepatic and renal affections the increase was more marked

4 The red blood count, hæmoglobin, and color index varied to such a degree that no conclusion was permissible However the intervention seemed to have a complex influence, in some instances stimu-

lating and in others depressing the hæmatopoietic

In twenty-one of the thirty-two cases the white blood count was moderately increased and there was a moderate neutrophilia However, these changes showed no relationship to the quantity of ether or the type of the disease or intervention

The author concludes that there was no evidence of a deleterious influence on the body that could have been attributed directly to the ether anæsthesia, and that when changes occurred they were better explained by the nature of the malady or the relative gravity of the operation CLARA RAVEN

The New German Evipan-Sodium Killian, H Anæsthesia 4nes & Anal , 1034, 13 177, 226

Evipan sodium is the sodium salt of evipan, i.e. of N-methylex clo-hexenyl-methyl-barbitume acid The intravenous injection of a 10 per cent solution produces a short surgical anæsthesia. The duration and depth of the anasthesia depend upon the quantity of the drug employed and the rate at which it was injected

The average period of anæsthesia is from twenty to thirty minutes in length Three or four cubic centimeters of the solution are injected during the first minute, and anæsthesia is induced almost at once Three or four additional cubic centimeters are then injected fractionally at intervals at such a rate that the respiration and the color of the skin are not materially modified Patients with diabetes or disease of the heart, lungs, liver, or Lidneys show no ill effects after this form of anæsthesia. Doses of from 3 to 5 c cm are recommended in place of ethyl chloride for short surgical procedures and also for the induction of anæsthesia before the administration of ether, nitrous oxide, or chloroform for surgical procedures requiring fairly long periods of time

Following the injection of evipan sodium the respirations first become slower and deeper sequently there is a decrease in their depth often accompanied by a slight transient cyanosis modification of respiration is therefore the best guide to the amount and speed of the injection. The blood pressure falls during the injection and gen erally quickly returns to a level from 5 to 15 points below the original level. With the fall in the blood pressure there is a slight increase in the pulse rate As a rule the more quickly the injection is made the more marked are the changes in the blood pressure and pulse rate

The pupillary signs are also of importance as an indication of the depth of anæsthesia Moderate pupillary dilatation with a positive reaction to light indicates safety Wide pupillary dilatation with fixation to light indicates danger, especially when other signs such as a marked change in the patient's color and depression of the respiration are noted

According to the author's experience, excitement during the stage of recovery is rare, transient, and mild Postoperative vomiting has occurred in fewer

than 5 per cent of cases

Muscular relayation is greater than in full other smestheds and poroaches that produced by aver tin Relaxatio of the jan and pharyngeal muscula t re occurs ordelly and care must be evercised to maintain an adequate air way Because of the fact that in the cases of patients who re very ill as little as c.cm f evipus sodium solution may produce deep aniesthesia, great care must be exercised to odd pushing the injection too rapidly in the cases

f such nationts. Over-doseer can monelly be quickly remedied by the intravenous injection f

corumin in doses of from a to t

Cm. On the basis of experimental ork the author behaves that the use of evinan softum should be restricted in the cases of patients ith a diminished resolvatory surface or other impairment of ventila tlon. suburamic condition, or a severe liver affection II states that in the reports of 15,000 cases to which evipus sodium was employed, only a death was recorded Arraya S W Tocsorr M D

Manegaux, G., and Sechelmy L. A Critical Study of General Amesthesia Induced with E (pan Sodium (Étude critique de l'ancethésie générale à l'évapan sodrese) J de élée aus 44 101

For approximately two years evipan sodium, barbiturate, has been used in several countries, particularly Germany for the induction of newthesia. It is given intravenously and its advocates have claimed that I produces complete and grecable unathems free from danger

review of the literat re the authors found nearly soo reports of experiences a th this anasthetic covering about 23,000 cases. They discuss the chemistry of the product give its structural formula, and tabulate the results of ammal experiments showing the amougt a percentary to produce hypnosis.

angethesia, and death

Evipen sodium is rapidly destroyed in the body probably by the liver its ction as a general anasthetic is therefore comparable t that of gas Perpocton given atravenously is destroyed and chargeers from the blood stream much more slowly Averts given by rectum requires longer time to reach its maximum effect and a climinated slowly

Evipan may be injected into one of the vents at the elbow or 1 to the suphenous vein. The solution ta made by desolving gm of the dry powder in o c cos of distilled a ter and shaking thoroughly

The thors recommend that not more than com be given tome time although the l terature shows that some appresherate have given as much as 6 cm Several methods of determining the dose have been tried. The thors re of the operion that a mathematical formula is impossible and that therefore the dosage must be determined from the teaction of the patient during the course of the inlection.

It is generally recommended that the injection begien titherat of cm in from tent fifteen seconds. The athors is a the first cubic centimeters (to the point of sleep) t the rate of con per minute and the rest t the rat of bout a c cm per thirty accords. The rate must be increased in the cases of robust subjects and reduced in these of weakened or tired persons

If the operative procedure is lengthy repeated injections ma be gi en at the eligitest sign that the patient is a alessog. The thors have men 18 c cm in a injections over period of an hour and a half and others report using as much as from a to a con There does not seem to be any contraindication to the pre-operative adminstration of an oniate if this is desired

During the injection the patient face is usually of normal color or only alightly livid ith perhaps alight cyanonis of the line Pallor is an indication of

impending trouble.

Paralysis of the muscles of mastication and about tion of the corneal reflex are constant in all care. The reaction of the pupil t light is anable. The pulse and blood pressure are little changed. The respiratory rat falls with diminution papphinds until the trauma of operation causes it to rue to normal or above

The induction of assesthesis falls completel in only bout a per cent of the cases and the sorethous

is relatively poor in only from at to per cent aken from filters to The nationt begins to thirty minutes after the termination of the injection Postoperative vomiting is uncommon and points ary complications are extremely rare

Respiratory stimulants (coramine, str) close, caffein) are indicated when there is evidence of on-

pending respiratory failure

The chief contra-indications to the use of evipus sodium are peritonitis, ileus, grave septicareis, sad hepatic insufficiency. The uthors regard seems thesis induced with evipan sodism less dargerous than chloroform or spinal mesthesis and bost to safe as other presbests

They review 40 non latal coldents during sartthesis induced with evipen sodium and 13 cores to which death occurred. An extensive bibliograph) h Marie & Poor MD included.

Livingston E. M., Emy S., and Lieber II. Eripal Society A Short Intravenous Assessment Am J Surg 934, 26 5 6

Hele when Everal is barbsturic acud derivati definistered intravenously induces surpcal ases thems lasting for from five to twenty minutes It acts this the first minut country summinary general summediar relaxation. There is no prefer inary excitement or struggle. The poles is shell increased in the poles in the poles in shell increased in the poles in the increased, and there may be fall of from 1 to # man in the blood pressure. After termination of the amesthesia there is no postoperative names, reset ing, or excitement. The lethal does is a times the amenthetic dose, the margin of safety therefore being wade Detexification is accomplished my rapidly n the liver and is practically complete on termina tion of the anasthesis

Evipal sodium anæsthesia is contra-indicated in severe liver disease, grave infections of the upper respiratory passages, and involvement of the respiratory center

The Medical Research Council of London reported only 1 fatality in 25,000 evipal anæsthesias The drug is sold in sterile 1-gm ampoules It is dissolved in ioc cm of sterile distilled water and given slowly, the injection taking about one minute. From 3 to 5 c cm of a 10 per cent solution will produce anæs thesia lasting for from five to ten minutes, and from 6 to 10 c cm (the maximum dose), an esthesia lasting for from fifteen to thirty minutes. The patient should first be prepared, and the surgeon should be completely ready to begin the operation when the dose has been administered. No preliminary medication should be given. The use of evipal is not contraindicated by the previous ingestion of a mea<sup>1</sup> The character of the surgical operation is limited by the duration of the anæsthesia (twenty minutes) The authors have employed evipal in 280 cases for a wide variety of surgical procedures ranging from appen dectomy and hermorrhaphy to the common minor surgical operations The patients ranged in age from two to eighty-eight years and their general condition ranged from good to poor

BENJAMIN G P SHAFIROFF, M D

# CoTui, F W Further Studies in Subarachnoid Anæsthesia Anes & Anal, 1934, 13 183

From studies made on dogs following the induction of subarachnoid (spinal) anesthesia with

novocain, the author draws the following conclusions

I Vomiting associated with spinal anæsthesia is probably due to stimulation of the vomiting center by upward spread of the drug from the spinal canal It is to be considered a danger signal

2 Spread of the drug into the spinal canal is governed by at least three factors. These are (a) gravitational flow, (b) leveling, and (c) molecular diffusion perhaps assisted by the normal spinal pulsations.

3 In the head down position an animal is killed by less than one half the dose that would be required to cause its death in the horizontal position

4 It is possible that, in man, the curvature of the spine favors gravitational flow into the thoracic cavity

5 The respiratory center is much more vulnerable to novocain than are the phrenic nerves

6 The typical blood-pressure curve during anæsthesia shows a primary fall, an intermediate rise, and a prolonged secondary fall. The typical curve may be modified in a number of ways, the most important of which is respiratory paralysis

7 The low blood pressure of spinal anæsthesia resembles other low blood-pressure states in having

the main features of shock

8 Infusion of saline solution fails to overcome it Ephedrin and perhaps other vasoconstrictors seem to be the only efficacious remedies

9 The Trendelenburg position is not only useless but also harmful ARTHUR S W TOUROFF, M D

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROBATCHHOLOGY

Onlimby, E. H., Copeland, M. M. and Woods, R. C.: The Distribution of Recursion Rays Within the Haman Body. In J. Reculpsed 014.3, 144

One of the first problems confronting the recent protogist is the measurement of the actual quantity of irradiation delivered to a given tissue. The authors studed this problem by a direct competition of cadaver and safer-phantom measurements mide with the stime naturements and as nearly as possible, under like conductors and measurements made on living persons.

The factors used in most of the work err near in may not now a filter of sum of copper and 5 mm of ulusususm and target distance of 5 mm Some of the measurements seen also made with 700 km resulting and the jamma rays produced by a 4 mm rad in pack, but the measurements on the code or small calculations and the summer of Falls were used. The unstruments were checked dusly fair working the measurements of the summer of

A comparison of the back actitering readings above that the values for the cadaver ers in all cases lower than those for ter. The greatest discrepancy as in the chest and law. The variations in the size of the unadated field for various parts of the cada et and the ter plantom showed very

close agreement. The percentage depth doses or tabulated for soo and pook. roestigen rays and gamma rays in the cadere and water. The authors conclude that for all the cadere and water. The authors conclude that for all the cadere and water. The cadere cade water that the cade is a terphanton may be used for Il tedes and depth in an part of the hooty except the cheer and mitrawaters in the report of the cheet and most if the cade is the cade of the cade in the cade is the cade of the cade in the cade is the cade of the cade is the cade of the cade is the cade of t

I eightein living subjects somaber of measure ments ere made on the pelvis for soci, rays by inserting cylindrical chamber into the vagina. I this series of measurements the mentgen trole was not only centered over the chamber but displaced laterally in order t obesi. The distribution of the irradiation t among depths. It was found that in the bringin goldridual the values for beets examining are ber een those for the orderer and those for the photom but fower to the latter A conquence of surface-detensity values tre-caled very close agrement with the orderer and the ster phantom. The depth dosages in the homas polyis and to the write photoms aboved to serious difference. The was true also of the unration of the depth dose with the size of the frenchated or

The values for positions off the axis of the bean were sometimes alightly lower and sometimes slightly higher than those on incides charts, but as greater discrepances were found between the firthe

ladlykingl and the water phantom

The authors cooclade that, with the exception of the chest and farm-oral region, for kick corretion curves are given, surface and depth-dose where obtained by measurements in a water plantons was be safely employed as a satisfactory approximation to the true values in Irraduction theraps.

East & Barts, M D

Hirsch, L.S. The Application of Kymersentistography to the Disgnosts of Cardiac Disease Enterty 1314, 23 720

While it is not yet possible t determine excels the value or all of the possible potentions of k morre (sproography in the austromon), physical concious from the data already obtained that we method all have a wide field of serialness and it assess; greatly in the postmon of many difficult probability.

lens relating to cardiod) same

It contributes the following information reported to beart () the makes point of the craises stakes, () the shape of the heart as a whole and of schambers during the winners phases of movement, (s) the sare of the heart in systole and distribute of untermeditte plates, (a) the characteristics in the craise shapes, (b) the characteristics who contributes the cards mucke, (b) the retrievants of contributes to conduction phenomena, (b) the intimum of movement to as sum of phenomena, (c) the characteristics to conduction phenomena, (b) the character of rhythm distributes, (c) the critical and section of movement of alongs, and (c) and them of the characteristics of the characteristics

Stunger P A Ray Kyrnegraphy of the Heart Bra J Rachal 934, 7 797

After briefly reversing the history and principles of surface kymography of the heart the wher presents an extensive and detailed dacussion of the reaching of kymograms. He considers the damentous of the movements of the heart as recorded by the waves produced and calls attention to individual variations of such movements and variations in different parts of the heart. He states that for accurate interpretation of the movements it is necessary to determine the time relations of the single movements as accurately as possible. While this determination can be made with a caliper, the author has worked out a densographic method which permits an analytical time observation of kymograms by fractions of a second. He describes the method in detail and shows its value by kymograms and densograms.

Examination of movements in the kymogram reveals the exact topographical location of a movement because of the fact that different parts of the heart and vessels show functionally different movements. It permits definite determination of the amplitude, course, and time relation of the various movements of pathological and normal hearts. In the presence of pathological variations in shape the ventricle area can be defined more exactly than in an ordinary film. Two cases presenting difficulty in differentiation which was readily cleared up by roentgen kymography are reported.

Changes associated with hypertrophy and atrophy of the musculature of the heart, pericardial disease, infarction of the cardiac wall, and beginning aneurism of the cardiac wall are discussed

Attention is called to the difficulty in attaching pathological significance to changes in the form of the waves It is impossible to draw final conclusions with regard to function from the general form of the ventricular movement. From all of the material examined the author is able to conclude with certainty only that in nervous heart disturbances high peaks very often occur at the beginning of the systole In cases of weak heart, on the other hand, the waves are flattened and rounded Very characteristic in cases of thyrotoric disturbances is an abnormally high wave When the mvocardium is injured there is usually a step-like splintering of the movements in the left ventricle and the time relations of the individual movements are changed. The most marked change of movement forms takes place in cases of disturbances of rhythm, in which both the extent and the duration of the movements are changed

ADOLPH HARTUNG, M D

Wintz, H, and Wittenbeck, F The Reasons for Failures in Roentgen Therapy of Carcinoma (Gruende fuer die Misserfolge der Roentgentherapie beim Carcinom) Verhandl i internal Kongr Kampf Krebs, 1933, 2 1181

Because of the numerous failures of roentgen therapy in cases of carcinoma, the authors made a statistical study of their 1,014 cases of carcinoma of the uterus to determine the essentials for optimal results from irradiation therapy. From their figures they conclude that as irradiation has yielded numerous undeniably successful results the number of failures still occurring can certainly be decreased. While the fight against cancer which has extended

throughout the body is still hopeless and the treatment of localized carcinoma in patients whose resistance has been weakened by other diseases or loss of blood is usually unsuccessful, the fiction of "radioresistant carcinoma" should be combated

Starting from the fact that by the application of the correct dosage every carcinoma can be destroyed, investigations should be made to determine how far the biological forces of the body which eliminate the products of decomposition and upbuild sound tissues have failed, or what technical errors have occurred in the treatment. Only irradiation by which all of the carcinoma cells are destroyed will effect a cure. For such destruction 110 per cent of the skin erythema dose must be applied to the tumor and the entire area into which it may extend in cases of squamous-cell carcinoma and 125 per cent of the skin erythema dose in cases of adenocarcinoma.

As a rule failure results because this dosage is not attained or is attained only in parts of the tumor and therefore the first requirement of roentgen therapy, the destruction of the cancer cells, is not met. Even with the most perfect technique the attempt to administer the destructive dose throughout the tumor region may be unsuccessful because in continuous or fractionated irradiation the biological power of recovery of the cells is not given sufficient consideration. Failure may result also from disregard of the fact that an inflammation in the carcinoma and its vicinity alters roentgen sensitivity. Biopsy may lead to failure if it is done before the irradiation and therefore should be undertaken only after the irradiation.

As the destruction of the tumor is merely the basis for the cure and removal of the decomposed matter and cicatrization of the resulting defect are necessary, the latter must be stimulated after the irradiation Otherwise, failure will result and healing will not occur Statistical studies show the necessity for proper post-irradiation care

In addition to the medicobiological reasons for failure of roentgen therapy of carcinoma there are those of a physicotechnical character. The physical factors have the most important relationship to dosage. The physical phenomena occurring during irradiation dispersion of the irradiation, and secondary irradiation have a marked effect on the dosage in the irradiated area. Prevention of errors in dosage resulting therefrom is possible, but requires a thorough knowledge of physics. A certain amount of technical knowledge is also necessary because of the complicated nature of the roentgen apparatus. Without such knowledge defects in the apparatus or the various measuring instruments may not be recognized.

The results that may be expected from the method of treating gynecological cancer which is used at the University Gynecological Clinic and the Roentgen Institute at Erlangen are demonstrated by the results obtained in the former institution in cases of carcinoma of the uterus

(F A WAHL) JOHN W BRENNAN, M D

#### RADIUM

Santoro D'Emido, A. S. Radi in Therapy i Bone Metastassa from Carcinomas of the Breast (La radminterapia acide metastas osses da carcinoma manusana) Radiol med 234, 586.

The institions development of generalized measure from carrisonme of the breast readers in consists y 1 pay close attention to every complaint of pain by women who have itself breast transport for carrisonme 1 the early stages, in which the condition will mainly be revealed only by recutiguography traditation therapy may be applied. (It is some prospect of success.)

The a ther discusses some of the general findings of clinical at dy and especially the pathological anatomy of bone metastages from carcinoma of the breast I an effort t explain the rationale and the results f irraduation treatment. In the outcochatte type of lesion the osseous tissue is gradually de crossed and is replaced by primitive connective timue Very earl the calcureous salts are decreased and there is fusion of the true bone luch is later replaced by abrillary time. The latter is in turn I vaded by the neoplastic elements. At the pemph newly formed connectly these senerates the peoplesm from the resting hope. The degree I the invasion is f importance in the efficiency of irradia tion therapy. I the osteophastic type of lesson there is increased bone production accompanied by increased calcificatio hich may interfere with the penetration of the rays t the acoplestic these Therefore osteoplastic lesions must be given much more and heavier irradiation. I vasion of muscle is often a favorable condition for radiotherapy

The use of rachum in the treatment of osseous metastages has been neglected. The author regards radium as superior to the \ rays in the treatment of secondary bone t more H states that it is easily and painlessly applied With adequate filtration, only the gamma rays are used, and hen the urradus the is given i prudent doses it does not cause necrosas. Necrosas occurs usually when tumors from the surrounding regions invade the bane after destroying the personteum and the afferent autment arteries. Under such conditions uradiation may accelerat the process. When the metastases in the bone are embolic, irradiation arrests the temor growth and the calcification in the bone is increased The use of small doses over long period of time gives the best results

The uthor describes his technique of radome irradiation II has obtained the most substactor results from juriacetaneous irradiation for from ten to twenty days, depending on the depth of the boss and the gravity of the lease. If each 50,000 pages I radiom and changes the position of the radiom. The tradiom frequently II reports everal the option of the categories and the option to be applied were easily in the option.

In conclusion the thor emphasizes the unpor tance of the analysis action of radium in lat cases,

nd states that the dangers of radiodernastile are not derestimated A Loris Rose, M D

#### MISCELLANGOUS

Lab: The Principles, Application, and Remits of Short Wave Disthermy (Grandlages, to under and hyphase der Kutz eilendutherme) Zestreit f Chr. 534, p. 500

The effect of abort was dusthermy is due to the accumulation of heat in the tissues. This occurs according to this laws of Joule. The true commune factor is an immediate active hyperemia. For the dosage t the present time we are dependent upon the patient subject; a mustions of heat

In souts surjical infections short-over duthersy is not the method of choice It is dangerous to samme that short we treatment readers surjected in the samme that short we treatment readers surjected processes. Surjecty must always be considered into the surject of the surject

On the ther hand, the indications for their was distinguished as the state of the s

The volent field of principus for abort-sent dathermy is the treatment of paint theses which are not of an acut understandary or spende saturlingures of the po is (after the chapper of blerding has passed) persestent intuitative effences on spicial means of impury to the capsels, and joint off-sidest in the immediate inephilochood of fractures restell, as does permittures of the humerus and exapta Mysigra, humbago neuralpa of various types, and executive are suitable for this form of treatment Sulacut postoperature infiltrations following plants operations and strumertomes respond well. Fatable

following recent abdominal operations close up faster after short—sive distherm—Short wave disthernly has no specific induced of

tumors.

In the discussion of this report Housing reviewed experience in the doct wave distinctly of Frebrig Chole. His titteds a very stropast. The improvements occurred chiefly in the mild or only moderately sorver occur of the various tracking groups. Some conditions—one for the restriction for the freshment of the freshment

REHN stated that in his opinion long-wave diathermy has not been superseded and may yield better results when it is further improved

SCHITTENHELM stated that in two years' experience with the ultra short-wave he found that subacute inflammatory joint diseases react best, the reaction of gonorrheal monarthritis being especially surprising Pneumonic infiltrations often clear up rapidly, especially those in an area near bronchiectasis Inflammations of the nasal accessory sinuses and catarrhal affections of the upper air passages are favorably influenced Furunculosis reacts satisfactorily, but deeper abscesses do not respond.

(Ruge) John W Brennan, M D

Binet, L, Laudat, M, and Auclair, J Hyperthermia Caused by Short Waves (L'hypertherme provoquée par les ondes courtes) Presse méd, Par, 1934, 42 1917

Dogs were given intravenous injections of chlorolose and an hour later were treated with the diathermax apparatus with wave lengths of from 15 to 18 meters. Some of the animals died when the temperature reached 43 degrees C, whereas others were able to withstand that temperature and a few were able to withstand a temperature of 46 degrees C. In the cases of ten of the dogs the temperature was raised to 42 or 43 degrees C and then lowered gradually and a study made of the blood. The latter showed a great relative decrease in the plasma

and an increase of the cells. The index of refraction was first lowered and then raised to a point higher than in the beginning. There was a slight increase of proteins. The proportion of serin to globulin was changed only slightly. The lipoids showed a slight increase, and there was a marked hypergly cæmia which disappeared quite rapidly when the heat was stopped. As a rule the urea was increased. The azotæmia persisted even after the temperature was lowered.

In all cases the hyperthermia was accompanied by an increase in the carbon dioxide with a consequent lowering of the alkali reserve. As dogs breathe much more rapidly under the influence of high temperatures, it might be supposed that the decrease in the alkali reserve was due to the hyperventilation. However, such a decrease occurs also in man in whom the rapidity of respiration is not increased by hyperthermia.

The chloride content of the plasma showed an increase and that of the cells a decrease. While the changes in the chloride content of the blood were less marked than those in the alkali reserve, they seemed to be related to the latter and to follow them. In man, the chloride changes are in the same direction and almost the same in amount as those in dogs.

In the case of one dog in which the urine was examined it showed progressive alkalinization

AUDREY GOSS MORGAN, M D

## MISCELLANEOUS

#### CLINICAL ENTITIES GENERAL PHYSIC-LOGICAL COMDITIONS

Bislock, A. The Influence of Exposure to Cold and of Deprivation of Food and W ter on the Destopment of Shock. Arch 5wg 834, 20

In experiments on animals to determine the effects of cold and of deprivation of load and water on the minimum loss of blood necessary to cause death, loss of blood was produced in some instances by the removal of blood through a cannula placed in the femoral artery and i others by infuries t the

In the experiments with regard to the effect of exposure to cold on the development of shock from hermorrhage and trauma the results are found to depend largely on the depth of anesthesia at the time of the exposure. In the experiments, 1th regard t the effect of deprivation of food and ter the nimels were deprived of lood and a ter for forty-eight hours immediately preceding the studies. The loss of blood resulting in death—as found to be not much less than in experiments in buch the numels ere not deprived of food and water. In the experiment in high death was produced by bleeding the eight of the blood removed from the f moral riery as pproximately the same as the difference in the cights of the injured and nin sured extremities in the expensions in which death was caused by tranma

BERRIAT F THURSTON, M D

Mitchell, A. G., and Brown, E. W. The Clinical Implications of the Thymes and Status Thymicolymphaticus. A IN NA

Statistical studies were made in the cases of niants and children ho, according to the findings of rocatren ecamination had an enlarged thymna The control group ere 5 talants and children who were free from thymns colargement according to the same enterior I rom the results the a thora draw the following conclusions

I some instances an enlarged thymns gland can cause pressure upon structures in the thoracic talet and lead to the development of such a motions as displace, crossing respiration, cough, and cia-BOOK S

Other conditions are perhaps more frequently responsible for these eventoms than a enlargement of the thymns

3 An inlant or child who has some cause for dyspaces, cough, and cyanosis, such as respiratory tract infection or cooperatal heart shapes and bo has also an enlargement of the thymus is more liable to develop these symptoms. Probably an enlarged

thymus may ski in their production even when, in itself, it would be insufficient to cause them.

The authors state that, according to statistics. there is no significant association between enlargement of the thy mus and pylorospann. There is no provid that convulsions are associated with splanned thymnes. Even in the case of a patient with an enlarged the must be occurrence of convulsions should lead to the suspicion of increased battacranial pressure, spasmophilia (tetany) or some other cause Lalargement of the thymns demonstrable in the reentgenogram is by no means necessarily essociated

Ith symptoms I en when obstructive symptoms are present in the case of an injust or called the an enlarged thymus, search abould be made for another possible rause. The studies herewith reported offer no notation of the problem of the relation of sudden death without apparent cause to status thymicals mobsticus WALTER H NAMES, M.D.

Ferrari, R. C. Pilonidal Co to and Physics (Oulter faculas dermondeos coccissos). Semano más 914 4 353

Statistica on 142 cares I pilonudal alsasa are pre sented In 74 cases stagle exclusion was performed de the same and coccyx ere excised simulta-

secondy in 3 section, curettage, and packing were The ound remaining fire excision was treated by wide open packing with loding grows hich primary closure as done, best-Of 35 caucs ing occurred touce in and suppuration required drainage occurred in 44. In as cases partial chosare and packing of the remaining part of the wound ere done. In 6 cases closury as effected with bipedicled flap by Labor' technique

The hest proced rea for palountal crass and fistule re trie-open packing and the Labey plastic closure When trie-open packing is done the postoperativ

period can be shortened by covering the ound ith Ihrersch grafts The procedure of least value is partial closure ad parking of the ound This is the treatment that causes the most marked duturbances, is followed by the slowest healing, and requires the greatest umber of complementary openstions.

From results could be established in 64 cases in which the operation as performed t least one year and two months previously. A recurrence developed in a cases. I none of the cases in which healing occurred was there any complaint of rendual to mptorm or discomfort

The uther describes the findings of microscopic examination. He calls attention to the difference bet cen true and false recurrences. In true recur specific tiesce of inclusion left behind in the previous excision is found. In faine recurrences the section shows only granulation tissue without

a specific character

In the treatment, only complete excision is to be considered. The excision must include all of the region usually involved by the disease. It must extend down to the sacrococcygeal fascia and laterally to the origin of the gluteal muscles. Frequently it must include the coccyx

WILLIAM R MEFRER M D

Matolas G The Surgical Complications of Diabetes (Die chirurgischen Komplikationen der Zuckerkrankheit) Orresklests, 1934 24 737

The surgical diseases of diabetics may be divided into two large groups, those which are unrelated to the diabetes and those which develop because of the diabetes. In both groups there are cases in which operation must be performed immediately and cases in which it may be delayed. It is generally assumed that imperative operations must be under taken without regard to the diabetes whereas operations not absolutely necessary should not be performed even in the mildest forms of diabetes In injuries, ileus, strangulated hernia, and per forated gastric ulcer the procedure is the same as in the absence of diabetes. However if the patient's condition permits it is best to postpone the opera tion for three or four hours in order to prepare the patient and to combat an existing or threatened Large doses of insulin and alkalies are indicated The possibility of hypoglycæmia must be lept in mind and the blood sugar constantly natched For the practitioner who is not always in a position to determine the blood sugar urine analysis for sugar will suffice to a certain point

Experience teaches that in young persons operation often aggravates diabetes, even when tolerance is good and the urine contains no sugar or acetone.

In the preparation for operation excessive starvation is of no value. On the other hand, if coma is present before operation, determination of the blood sugar is indispensable for correct regulation of the diet and differentiation between pancreatic and renal diabetes.

During the postoperative management, factors which favor the formation of acetone must be eliminated. After abdominal operations, acetonuria is favored not only by operative shock but also by the loss of fluid and the unavoidable withholding of nutrition. The intravenous or rectal administration of fluids is necessary. The administration of large quantities of sodium chloride should be avoided.

Since the discovery of insulin the indications for surgery have been widened and the results of surgical treatment improved. The effect of insulin assures better and quicker healing, more rapid demarcation of necrotic tissue, and more active formation of granulation tissue.

After injury diabetics frequently develop phlegmons which have a marked tendency to spread rapidly. The fact that in the presence of diabetes

operations for ingrowing nails or corns may be followed by gangrene of the foot which often threatens life is well known. Infection and abscesses follow injections more often in diabetics than in healthy persons. Therefore great care is necessary even in the simple injection of insulin. Furuncles and carbuncles develop most frequently on the back and often spread rapidly to an enormous size. If the thinned skin over large and repeatedly incarcerated umbilical hernia becomes necrotic, severe abdominal phlegmons develop. Suppurative middle-ear infections in diabetics readily lead to serious bone necrosis, sinus thrombosis, and meningitis.

The prerequisite for good treatment of wounds is good general management. The local application of insulin hastens the healing of wounds. The most common complication is gangrene of the lower The most important cause of this extremities condition is arteriosclerosis. Also of importance in its development is severe infection. Before the days of insulin it was the rule in cases of gangrene extending beyond the toes to perform a leg or thigh amputation. As a result of the action of insulin, exarticulation of the toes is often sufficient Amputations should be done simply and quickly Anæsthetics favor the development of acetonuma Chloroform is not indicated. Ethyl chloride and a brief ether rausch are less dangerous Spinal anæsthesia seems to be best for local an esthesia, novocain without adrenalm should be used As wound infection threatens in cases of diabetes, gentleness in operating and careful homostasis are important. A disadvantage of insulin is its tendency to cause tissue ædema. A diet with a lon salt content should be prescribed and the fluid intake limited

(ILLES) LEO M ZIMMERMAN, M D

# GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Sheplar, A. E., Spence, M. J., and MacNeal, W. J.
The Therapeutic Use of Concentrated Antistreptococcus Serum of the New York State
Department of Health Arch Surg., 1934, 29
858

Serum therapy of streptococcic infections has been a controversial subject almost ever since the description of the first streptococcus serum by Marmorek in 1895

After a period in which streptococcus serum fell into disfavor, interest in it was revived by its somewhat successful application in the treatment of scarlet fever and erysinelas

While the classification of hæmolytic streptococci is still confused, there is no valid reason for distinguishing between therapeutic sera for different clinical types of streptococcic infection

The most potent antistreptococcus serum non available appears to be the concentrated serum of the laborators of the New York State Department of Health

Samuel Karn, MD

# INTERNATIONAL ABSTRACT OF SURGERY

# DUCILESS GLANDS

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Rowning, L. G., Clark, J. H. and Henson, A. M., (Banken), J. & Effects of Thyone Extract Of Thyone Extract The Biocopical Educate of Information of Am. J. Ast. 034. 5 1415 Following the continuous administration of thy

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An extract derived from the thyrms of young Violential content that the might and should be violent to the safety and should be safety as a safety and should be safety as a safety and should be safety as a safety as carries remove to macross the surgest and stown to prepalectal and mature male rate and of meted mainre female rate

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askurs obcured in t cutA delta as account natured in the special are special and special are special a in the thymna-tracted strain of rate the years in the trypesa-created stream or less than manufed earlier and bred earlier. Offspring of the

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This precupity as lacking to early latters of

thy more treated parents, it appeared in sales litters

LESTER R DEMONSERY M.D.

Rats under thy mus treatment appeared unusually docile, healthy, and contented. I veessly amounts of thymus extract resulted in an intoxication exidenced by increasing auriculoy entricular dissociation and eventual heart block.

HOWARD I MCKNICHT M D

Shumacker, H. B., Jr., and Firor W. M. The Interrelationship of the Adrenal Cortex and the Anterior Lobe of the Hypophysis. I ndo crarology, 1934, 18-070

From experiments on animals, the authors draw

the following conclusions

Severe hypophyseal deficiency causes a striking atrophy of the adrenal cortex. In animals, the latter may be corrected by substitution therapy. Hyper pituitarism results in hyperplasia of the idrenal cortex. Hypophysectomy destroys the capacity of the adrenal gland to undergo compensatory hyper trophy when the other adrenal gland is removed. Adrenal insufficiency results in anatomical changes in the hypophysis, the most characteristic of which is a dimunution in the number of the normal basophilic cells.

Both hypophyseal and adrenal deprivation cause a stunting of growth, inactivity and a decrease of the body temperature. In hypophysectomized animals growth cannot be restored activity in creased, or the temperature raised by potent ex-

tricts of hormone of the adrenal cortex. After hypophysectomy, animals may be subjected to uniliteral adrenalectomy without affecting their weight, general activity, or health. In adrenalectomized animals weight loss cannot be checked, growth stimulated, the subnormal temperature raised, the general health improved, or survival prolonged by transplants of the hypophysis. The survival period after bilateral adrenalectomy is shortened by a preliminary hypophysectomy.

In both hypophysectomized and adrenalectomized animals there is atrophy of the reproductive system with marked alteration of sex activity. The dysfunction and atrophy of the reproductive organs of hypophysectomized animals is not a secondary manifestation of the lack of hormone of the cortex of the adrenals as the administration of the latter fails to correct the changes in the reproductive tract or to restore sex function. On the other hand, the sex changes in adrenal insufficiency are probably dependent upon degenerative changes in the baso philic cells of the anterior lobe of the hypophysis The hypophyses of adrenalectomized rats show a decrease in gonad-stimulating power. In mature adrenalectomized female rats, hypophyseal trans plants induce estrus and in immature adrenalectomized female rats they stimulate excessive genital growth and favor prematurity

JOHN J. MALONEY M.D.

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Supplementary to

# Surgery, Gynecology and Obstetrics

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# INTERNATIONAL ABSTRACT OF SURGERY

# ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK Harmer, W D

Disease in the Upper Jaw Lancel, 1935, 228 129 The Treatment of Malignant Cancer of the upper Jaw is easier to cure than cancer in any other part of the upper air passages except the larynx. Its treatment has been greatly improved by the combination of surgery, diathermy,

Both surgery and diathermy are indispensable because, to date, it has been impossible to deliver an adequate dose of irradiation to such deeply sitan aucquate cose of madiation to such deeply strated growths by surface treatment alone. It has been found that complete removal of the upper jaw is inadvisable. The approach should never be made through the skin As most of the growths are complicated by sepsis, the first essential is the establishment of drainage Free drainage can be obtained by opening below through the canine fossa or the palate The soft ussues should be divided with an endotherm knife The canne fossa should be opened first and if the antrum is found to be full of tumor tissue the hard palate should be removed rule the soft palate should be preserved, even if it is thought to be invaded, because in this situation the disease can be treated successfully b) surface irradiation or interstitial needling If the soft palate can be left intact and ultimately becomes healthy, a very simple denture will repair all of the deformity and render the patient comfortable

Transpalatal exposure is a simple operation which can be performed rapidly with very little loss of blood and hardly any shock Intratracheal anasthesia should be employed and the pharynx plugged securely with gauze to prevent blood and pus from passing down into the lungs After four or five days the outlying malignant cells, which are always present in the bony structure surrounding the cavity and can rarely be destroyed even by heat, should be treated by irradiation. The author prefers radium to the X-rays rays, and surface irradiation to interstitial needling or the use of seeds The best results

are obtained by slow and prolonged treatments The permanent opening allows the cavity to be inspected easily so that if at any time a remnant of disease or recurrence is found, it can be treated by diathermy or by further irradiation no external deformity no external deformity Computations are rare and serious burns of the skin seldom result. In no case has spreading osterns occurred However, small Complications are rare and sequestra and some sloughing are common Occasionally, also, the sight of the eye may be destroyed or a post-irradiation cataract may develop later As a rule no treatment of the glands of the neck is required

The described method or some modification of it can be carned out for squamous cell carcinomata, can be carried out for squamous cent caremomata, and low-grade sarcomata such as fbrosarcomata, myxosarcomata, and chondrosar-Comata without great risk of causing dissemination However, when the disease is very advanced and of a highly malignant type, disturbance of the growth should be avoided as much as possible

The highly cellular carcinomata and sarcomata must always be regarded as inoperable Deep X-ray treatment or surface irradiation with radium alone or a combination of these procedures is probably the safest method of treatment in most cases Occasionally, after preliminary irradiation, it may be wise to msert a large number of needles into the Jaw through the palate or nose with 0 8 mm of platinum they may be left in situ for from five to seven days, but the reaction must If the needles are screened JOSEPH K NARAT MD

Francois, J Catarrhai Diphtheritic Conjunc-The author's conclusions regarding diphtheritic conjunctivitis are as follows

Besides the pseudo-membranous forms of diphtheritic conjunctivitis, there is a purely catar403

The latter is often observed in nexty born children and should be classed with the ophthalmias

1. It shows no pathogramonic sign and has the 3. 11 errors to permanent or incorporated confunc of the newborn.

Because of its clinical aspect, it seems to be the most bentan of all types of diphtheritic cosmotività llowers it may be complicated by trith

sections compass issues.

3. It is refractory to ordinary treatment, but to refractory and rapidly under auth-diphtheride to the section of t serious corneal lesions.

# Blanchoverly A. Luctures on Motor Apocuntus of the farm II Paralysis of Indirectal Fys of the farm Arch Opins 935 3 33 Muscless Arch Opins 935 3 3 serotherapy

Pureds of a single muscle to a case of orthophoria tendrs in deviation in the between bodylog epicy receive with the intensity of the parests and the func which and the parette markle. In a case of betterophysic tum of in paretic monace in a case or necesspooring the daylation is modified by the anomalous position of rest. Loss of tones of the paretic muscle above of rest. Loss of tones of the paretic muscle above. of rest. Loss of Daily of the parent musice easier allow restoration of orthophoris when the music alies restoration of orthophicis with the much reacquires its normal tone, but it a speak devia ton due t contractors of the antisproist of the particle moved occurs, part of the deviation of particle moved occurs, part of the deviation of particle moved occurs, part of the deviation of particle moved occurs, part of the occurs of protection the parents occur in cases of typical particle of a single moved the earlier of deviation protects to the contract of the parents of particle of the parents occurs on the parents by the parents occurs on the parents by the parents of the parents of parents by the parents of parents by the parents occurs on parents by the parents of parents by the parents of parents by the parents occurs on parents by the parents occurs occurs on parents by the parents occurs occurs on parents by the parents occurs occurs occurs occurs on parents by the parents occurs occurs occurs occurs occurs occurs on parents by the parents occurs o marries or a susse of decrease according t a height the movement of the cre is in the direction of the the movement of the cyr is in the direction of action of the parette muscle or in the direction of

scruer or the parter masses or in the action of its antagenial.

A modern innervation is sufficient to bring the A moderat uncertained is souther, which the check eys t the limits of normal nation, which the careful. Therefore, inguinets do not allow to be exceeded. Therefore, by tochis of an excessive intervation, even paretic by meets or an extrastive innervation, even freezes in much on bring the eye t. the sormal limit. Hence the anhocular held of fination is of less value for the announts and or distinct is or the the bidocular the disgress of sight persons then the bidocular field of fraction or the field of biocular conference, need of financial or (on seeing of conscious mages vasco), the limits of which are searly identical. A consideration is a search of the search use minute or warren and against securious A commoner their of fixetion erante nimitation of the tenoritar have the the in-results afact, became of Herbu's have that the in-pervation of both cross is invariably equal, motor mervance of come clos same areas effect on each ere If one of the marches executed the largeous move-microan man knowing miniman such on security

## PATRICLOGICAL COMPITIONS 1 THE ments is paretic

Is many cases of palsy an anomalous position of is many cases at pany an anomanous journey or the near is correct struct age i most cases the turning of the head is toward the direction. I setting turns got the peace is toward the account of action of the parotic marcis. The rule is modified by the or the person to spartle contraction of the entagonist development of spatio contraction of the entragolist insule, is not invariably control for the extraction of the entragolist insule, is not invariably control for the extraction of the entragolist insule in the entragolist insule in the entragolist in the entr to pursue or two terrators and orpromote it is venud only it bone corrections or upin sequences in one or both 5) as are paralyzed, in which case the beed is fixed or thrown back

I cases of trochlear nerve palsy the position of the bend is seldom in second with this rale beed is usually tilted toward the shoulder of the sound side and at the same time turned around so the vertical acts so that the paralle 5 h rotated out said. To cases of bacars of the smerter action show, the face is often turned only to the side of space, the letter is usual increase using the constant in the parents increase because the effect of adhering of the paretic type is to distillink deviation due to or the parent eye is to common ceresion one to parents of the superior rectus, replacing its action parents of the superior recent, repairing to street by increasing the influence of the observer. The role by increasing the unmerce of the contrast for res-must therefore be modified as follows. The patient come cuerture or mounts as marks and pattern thousand the least toconvenient position of the head by which the paretic march is sufficiently dis burdened so that binocular single vision can be ob-The sound eve is increanily appraisan for cannot the section or a strategier transaction of the parties over at the the paretic eye because or the panett's use at the paretic eye for firstlem. The paretic eye may have better widon than the other eye or may have been dentity around their the other that of the board opposite the process of the contract of the c comman some characterist, or adapties any a section troublesome in the primary position because the images are closer together in primary deviates

images are closer together in primary deviation.
These orientations when firming with the particle of the calculate with the many than the particle of the calculate with the supply but of the particle of th innervation and its energy and the tens orientation has con-becomes rectified. The paretic localisation has connecourse rectused to a paretic localization is fund rected is supposed by spaces; localization in parely with the non-parely eye. The extent of the parely deviation years individually within wide high certainm vaires incurvatedly within two com-without being proportional. to the degree of palsy of the other head, management particula with higher On the other hand, market the street of purely deriv-percial deplay a marked degree of purely deriv-percial deplay a marked terree of purely deriv-tation of the street of the silves. These reparess impay a marked universe of the libess then mentable differences seems to be due partly ( ) measure amovements in general triangle (ones, inmorrower outercases in general muses come, or tendor reduces being week in cases abovered level searche deviation and increased | those in least partite deviation and increased 1 these 1th legs invision. The righter and the land of scientification of the righter and the land of scientification of the formation of the formation of the parties are also as the land of the formation of the land of the la

the difference between the primary and secondary tow annerence between the primary and seconds of deviations, and the mercus and decrease of devia terration, and the increase and decrease of derivative terrations, and the increase and decrease of decrease of the section of the paralyzed meads of the decrease of the decr need of action of the paratyzed meaces or t. in opposite made With the return of normal renders as a partic massing the deviation may remain because w parent museus the ownering may remain because of contracture of the opposing master. If the contracture due process, basecular suche video de la tracture due process, basecular suche video de la tracture due process, basecular suche video de la tracture de la companya de la compan imports in the whole heat of mexicon it too the tracture becomes personnel, a concomitant deviatracture becomes permanent, a concentrant device the remains, firing an error construction of the boundary of the control of t opplets in some cases the homogymous death copacities are not us the same large and are about investo are not us use senter became of memory toward one amount or common of co-pleting concentration byterphone or parties of co-of the vertical motors or at anomalous posture of the external rectus

# PARALISIS OF THE TROCHLE IR VERVE

By far the most important type of paralysis of a single vertical motor is paralysis of the trochlear The first striking sign in many cases is habitual torticollis, the ocular origin of which is frequently overlooked In many cases of the con dition in children orthopedic treatment has been given or the sternocleidomistoid muscle has been severed because of an erroneous diagnosis Paresis of the superior or inferior oblique is probably the cause of the habitual tilting of the head if binocular single vision can be obtained only by this posture In some cases the head is turned toward the sound side so that the visual line of the paretic eye, being abducted, is not acted on by the oblique muscles Depression of the head is rare The theories of the production of these positions of the head are dis

A simple apparatus based on the principle of Helmholtz s "\ Isierzeichen" is used for determining the influence of various positions of the head on the visual images It consists of a horizontal black strip on white cardboard fixed to a rod 30 in long which is rotated with the head by means of a metal plate at the other end held between the teeth A person with left trochlear nerve palsy sees two images of the line, the left image below the right and slanting to converge with the right image at the side of the paresis Tilting the head toward the paretic side increases the distance and the obliquity, while tilt ing it toward the sound side causes the images to

The vertical component is the most important in diagnosis, the deviation increasing when the patient looks down as well as when he looks toward the sound side The minimum of vertical deviation or even of binocular single vision is found when the patient looks up and to the paretic side In many textbooks mordinate importance is attached to the lateral deviation component in palsy of the trochlear nerve However, when a patient with exophona acquires a trochlear nerve palsy the exophoria transforms the smaller lateral paretic component from an inward to an outward deviation. In at least 25 per cent of typical cases of trochlear nerve palsy,

no lateral deviation or even a divergence is found In palsy of the trochlear nerve there is a torsion outward (disclination), whereas in palsy of the in ferior rectus muscle there is a torsion inward (conclination) When there is homonymous or crossed diplopia, the use of the horizontal test object pre vents a mistake in diagnosis for in any case of trochlear nerve palsy the paretic disclination makes the double images converge to the paretic side, whether there is homonymous or crossed diplopia besides vertical diplopia However, as in cases of abducens nerve palsy, trochlear nerve palsy also gradually loses its typical features by the development of a secondary contracture of the antagonist so that the vertical divergence increases in the direction of the sound side and decreases in the opposite direction without a change in the vertical distance of the two

images when the subject looks up or down Therefore, from the kind of obliquity, it is possible to conclude only that there is a paretic torsion, one cannot decide which eye the paretic muscle belongs to The diagnosis of the origin of a paresis may be made by the use of the apparatus described for the head tilting test

The author cites also a peculiar anomaly which is similar to the atypical vertical divergence just described because it produces the impression of excessive functioning of one or both of the inferior oblique muscles The conditions are apparently the same as in long standing permanent trochlear nerve palsy, in which a contraction of the inferior oblique develops during the improvement of the paretic superior oblique The anomaly is usually of congenital origin, but in some cases has developed after Killian's radical operation on the frontal sinus In the congenital type there is no disclination of the vertical meridian of the eve such as is found in every case of the acquired disturbance, whether a primary anomaly or a secondary contraction of the inferior oblique following trochlear nerve palsy

# PARALISIS OF THE OCULOMOTOR VERVE

Paralysis of individual muscles controlled by the third nerve is rire compared with paralysis of the abducens and trochlear nerves. The diagnosis is based on the principles already discussed. The in ternal rectus muscle is the only ocular muscle pos sessing two functions at the command of the will One of them obeys the impulse to parallel movement of the eves, whereas the other is governed by the convergence impulse A loss of both functions without paresis of the third nerve is extremely rare and points to a lesion of the nucleus or the roots of the nerves supplying the internal rectus muscle, neither of which can easily be damaged without involving either ganglion cells or other roots of the third nerve Loss of convergence alone is frequent. Loss of ad duction in looking sideways while convergence is intact is less common. In the majority of cases there is loss of conjugate movement Loss of adduction only in conjugate parallel movements with normal or nearly normal adduction in convergence can be caused only by a lesson of the posterior longitudinal bundle between the sixth and third nucleus (ophthalmoplegia nuclearis anterior)

Besides the internal recti, there is only one pair of muscles in which unlateral paralysis positively attributable to a supranuclear lesion can develop One sided elevator paralysis with integrity of the elevator muscles in Bell's phenomenon must be due to a lesion close to the nuclei below the point where the pathway descending from the cortical center for elevation of the eyes bifurcates into the branches which go to the third nuclei This condition has been observed by the author only three times

The symptoms of typical oculomotor paralysis are not discussed. Many patients with total paralysis of the third nerve are able to overcome extreme deviations by means of a strong convergence im-

W24 6/21

pulse. If the paralyzed eye is constantly fixing be cause of ametropia or ambylopia of the other eve. the secondary deviation may be extreme. Exophthalmos due t relaxation of the rectus muscles in oculomotor palsy may be associated with a striking retraction movement connected with the airduction of the paralyzed ex-

A rare phenomenon called by Koerber "nystarmos retractorius" has been observed only in cases of gra e injury of the nuclear region between the third and fourth ventricles Besides paresis of few or many muscles of both eyes, the most striling sign is retraction of one or both eyes following every

impulse sent to the eye muscles

Another peruhar symptom, the pseudo-Graele phenomenon, develops in patients partially recover the from oculomotor paralysis. This consists of atraction of one proof he and parrowing of the dilated pond following an impulse t look in certain direction. The explanation given is that during the healing process following interruption of the third perve some of the nerve abers from the central part of the trunk arrive at muscles t which they do not belong. As the nerve fibers, powerfully prefer certain routes for growing int the wrong sheaths, the impulse to look down and in usually produces the strongest contraction of the upper Ed levator

Cyclic oculomotor perve paralysis (Azenfeld) is phenomenon in which there is utomatic alterna tion of spartle and paralytic conditions of the paretic e) There are rudimentary forms which may be coally overlooked Some I the latter have been reported as third serve paralysis showing a peculiar pupil phenomenon. In about 5 per cent of cases the phenomenon is not congenital but equired in early childhood I all of the cases reported only the pupil of the paralyzed sy showed the cyclic type of paralysis. The thor believes that th legion is localized in the region of the third nucleus EDWARD & PLATE M D.

Chavira, R. A. Technique of the Cateract Operation (Técnica de la operación de la catarata) Ret mirrane de certa pare y clacer 934. 634

Fallowing benefirevers of the evolution of oper procedures for cataract. Chavira discusses the u indications for and the usual investigations and treatment preceding the uncomplicated combined extraction of the semie form of cataract and describes the technique of that operation in detail. If emphasizes particularly the importance of subcutaneous savetheds induced with sovocale by Van Lint method and deep anarathenia of the cychail induced by the retro-ocular injection of novocain

VI L MORES, MD

Stallard, H. B. Two Cases of Retinal Detackment Presenting Certain Unusual Features After Operation by Serface Disthermy Sea J Ophia 935, 9 3

Stallard reports to cases of retinal detachment treated by surface disthermy with apparent failure

Immediately after the operation but with ultimate restoration of the visual fields. Both were emme tronic

One of the cases as that of boy thirteen yours old who had had poor whilen in the ey stace as infury four years previously. In this case there was complete detachment of the lower part of the retire. involving the macula and associated ith large involving the mannie and amounted the higher satisfier dislysis. Postoperative immagement was very unsathilactory because of poor cooperation, and it the end of three cells there was no reattachment Hosever six weeks after the corretion there was complete re-attachment and mion Was 6/16

The other case was that of soman forty-seven years old who had had detachment for t months I this case surface duthermy was per formed with single trephine opening and the re lease of subretisal field, and the diathermy applica tions were repeated after fourteen days detachment still pendated several weeks later but improvement occurred enabally. Three mouths later there was no sign of detackment and mice

The anthor believes that in both cases the retural tears were occluded that the unbretinal field. originature either as acroscops or as a transpolate following the inflammatory reaction, was at first ble to peas through, but as the seahog up process became more firm the find present was absorbed and no more could puse through, the detechment

then becoming cored MILLA A MI to MD

## EXBURIS CEA ESOR

## Lazzlo, A. F. So-Called Mucuid Cysta of the hose A Report of Three Cases Arch Otdayspi

915-Laurio states that in all cases of smooth eyet of the nose reported previously the set of the cyrt was the name as in his cases and, except beathe cynt be-

came infected and broke down, the contents of the cost ere he character the same As rule interescopic examination aboved column

nar chated epithelium, but in some cases the earlilayered pavement epithelium formed the covering and in others transformation of the purement epithelium to columnar or citated columnar epi thelium was observed

In some cases cholesterol as found in the cycl the majority t was beent Absence of cholesterol in the contents of the cost cannot grove as been for defferential diagnosis as there to many dentigerous crats buch do not contain cholestero Laszlo grees with Rohmer that the cysts are of

embry ological origin and develop either from the epathelial abeet of Hertung or from marriaced examel anlagen mixed th musplaced anlagen of the store colthellers in the cramo-ethnoidal freure, chefr where the lateral process of the superior tearilla meets the metal process. He believes they should be

classified as cysts of dental origin Whether or not trauma or any other external factor such as infection or inflammation is the cause of their development has not yet been determined

JAMES C BRASWELL, M D

## MOUTH

Pfahler, G E The Treatment of Epithelioma of the Cheek Radiology, 1935, 24 99

The author briefly reviews the oral conditions associated with cancer of the cheek and discusses the problems of prophylavis and the problem of bringing the patient to the doctor while the lesion is still in the early stages. In reporting in detail Six of his cases in which a successful result was obtained, he emphasizes that each case must be treated according to its individual requirements six cases he reports heavy irradiation was given Deep X-ray therapy, the surface application of radium, and interstitial irradiation were all emwhen deep bone involvement was present in the Surgery was used as an adjunct usually Dorrance, G M

# LOUIS T BYARS, M D Tance, G. M. Inc. Pusn-Back Operation in Cleft-Palate Surgery Ann Surg., 1935, 101 445 The "Push-Back Operation" in

The attainment of good speech in cases of cleft palate requires complete velopharyngeal closure Such closure is obtained only by an operation per mitting the velum to come into contact with the mitting the veium to come into contact with the pharyngeal wall so that the "palotopharyngeal The more sphincter, shuts off the nasopharynx efficient the closure the more satisfactory the speech A considerable number of persons with cleft palate have a short palate, especially individuals with a The more cleft velum alone or in whom the cleft extends as far forward as the Junction of the middle and anterior thirds of the hard palate When no shortening of the velum exists, good operative and functional results may be obtained by successful closure of the

cleft palate without use of the push back operation The palatopharyngeal sphincter is a muscular ring formed by the pterygopharyngeal portion of the superior constrictor muscle which inserts in the palatal aponeurosis at the site of insertion of the levator palati muscles When it contracts it shuts off the nasopharynx from the oropharynx In cleft palate the antenor segment of the muscle forming the pharyngeal ring is split and the separated ends are far apart The tensor palati muscle is shorter than normal, and its contracture increases the diameter of the nasopharynx This lateral tension may be released by division of the hamular process which permits the antenor ends of the cleft pharyngeal rng to be approximated at the midline and thus restores the divided "palatopharyngeal sphincter"

All conservative surgical methods for repair of the palate are based on the principle of medial displace ment of the palatal soft parts as described by von Langenbach, but this fails to restore function in cases of short palate Dorrance prefers a two-stage

procedure with an interval of at least three months between the stages In the first stage he raises a mucopenosteal flap as far back as the attachment of the palatal aponeurosis and then replaces it In the second stage he raises the palatal flap again, frees the palatal aponeurosis and nasal mucous membrane from the posterior border of the hard palate, and divides the hamular processes to release the tension so that the two halves of the cleft palate will meet in the midline He recommends use of the aluminum bronze tension suture suggested by Veau The an The and the distributions of the distribution of the distri terior edge of the displaced flap is fastened with a suture through the bone and further supported by a In conclusion Dorrance again emphasizes that the push-back" operation is not employed in all cases and advises against its use before the age of five

THOMAS W STEVENSON, JR, MD Howarth, W (Bowen's Disease) of the Palate and Fauces Pre-Cancerous Epitheliomatosis

In 1912 Bowen reported two cases of dermatosis with chronic atypical epithelial proliferation The disease was a chronic condition characterized by single or multiple papulosquamous, eroded, or crusty hyperkeratotic tumor masses, The lesions occasionally metastasized to distant organs, but as a rule were benign. Subsequently several cases in which the lesions occurred on the vulva were reported

The described histological changes were dysheratosis in a hyperheratotic epithelium, (2) intracellular cedema resulting in a vacuole about the rect nucleus, (3) numerous mitoses, (4) clumping of large cells with grant nuclei and large nucleoli, (5) hyperkeratosis and parakeratosis, and (6) a general confused picture of the malpighian layer

The author reports three cases in which the lesions were similar in their chincal manifestations and histological appearance to the lesions previously described, but were located on the mucous membrane of the mouth His article contains sketches of the gross lesions and photomicrographs In the first case, that of a man fifty-six years old,

there was involvement of the cheek, soft palate, lps, and floor of the mouth Since 1920 the growth has been partially controlled by diathermic cauter-Ization No evidence of malignancy has developed although the lesson has recurred

In the second case, that of a man fifty-five years old, the lesion responded well to cautenzation, but the treatment was given too recently for judgment of the permanency of the cure

In the third case, that of a man fifty eight years old, the same treatment given recently has resulted

All of the histological sections were similar The epithelium was greatly thickened, there being elongation and broadening of the interpapillary processes On the surface there was a layer of necrosed kera-On the surface there was a rayer of hectosed Acta-thrized epithelium infiltrated with inflammatory

cella Small groups of large stratum grandscencells were present. In the cells of the traine multiplial were exchapeline hydroc bodies. Fraquently one of these bodies filed a cell. The cells of the basis layers. I the epithelines assessment of the basis layers. I the epithelines assessment early invading curraneous. The subspitched conective tissue was fibrotic and infiltrated with plasma cells and hymphocytes.

The thor suggests that the presence of inclusion bodies may indicate that the etiological facto is a filterable virus Loves T Brans, M D

Ross, J. C.: Sarcoma f the Toughs, Srif 1/ J 1935: 34

The uther briefly reviews the hterature on surcome of the tongue, pointing out that no one man has ever seen—sufficient number of cases to writ

report on the condition which is of much value.

The hierature indicates that arcoma of the tongue is disease of adult his and occurs more

frequently in males than in females

The true surcomats of the tongue are (1) small round-cell surcomats ( ) large round-cell surcomats

(3) spindle cell sarcomata, (4) mited-cell sarcomat

and (3) lymphosarcomata

The early symptoms are due merely t swelling
of the tongue. The later symptoms are those of

dvanced carmoons of the mouth.

The most frequent locations of surcoma are the middle and posturior thirds of the tongue. The swelling is firm and clastic. Utceration occurs only where a large timor as in contact with share teeth.

Metastasia to the cervical nodes occurs in 40 per cent of the cases

The beston differs from caronoms in that it possess suffer in life, it is rarely associated with pain, it is firm and clastic whereas cardinoms is hard, crappy and frishle, it anset as an intraglocal mass, and cargnoms is usually ulcrated early

and carcanoma is usually ulcerated early

The athor treatment is surgical removal of all
or half the tongue followed by block dissection of

the curvicul glands

Ross concludes that the prognods is not so its
favorable as might be enticipated

LOCUS T BYAHS, M D

#### PRARYNX

Sheplar A. E., Spence, M. J. and MacNeal, W. J. Theraportic Use of th. Concentrated Streptococcus Saram of the New York State Departteent of Health in Patients with Infections of the Ear Nose, and Threat. Art Surg. 915, 39

The a thore state that eight patients seffering from severe infection with hemolytic irreptococci in the field of orthinolars prology—sho of them with positive blood cultime—were treated with the constraints directococcus setum of the New York Stat Department of Health, with t desthe and six recoveries.

The early use of this sers in indicated in streptococide infections of the upper respiratory tract and the middle ser to forestall the all too-common serious sequelie of these mainties.

Postoperative infections in the upper respiratory tract may also be favorably influenced by the secun JARES C. REASSELL, M.D.

#### HECK

Oliver R. L.: Malignant Rolthelial Tumors of the Nack. Carcinoma of Branchiegenic Origin Am J. Caucer 935 3 6

Since the gill system is forerunder of the development of the thymos and thymoid and in responsible for vasifyial elements through dejective closure or incomplete oblitectules of the pyrecrycial sines, it seems who to designat deep failtrating opticional tumon of the neck as being of betterholders origin. The presistances of any portion of the actural of internal clears of the branched apparatus. Meditarems clears of the branched apparatus. Medtermatus which may develop as cytic of deep malignant ordermond treason of the peck.

The author presents—study of eighty cardiomats arising in the deep traues of the neck without rela-

among in the deep thanks in the neck without it took to the epiderinis or glandular organi

tion to the epiderium or glatienth organ. These trains occurred nice and frequently in males than in fermide and were most common in the similar decide of this. The average duration of the groups of the common of

Radical surgery is required for these rapidly growing and infiltrating tumors. The small operation advocated involves block theoretion of the plant of the seck. It resection of the larger vessels of the neck, including, in some lineances, the internal and common carried artery.

Pathologically the tensors in the reported cases ere grossly enter solid or cyrete. Under the microscope they could be druded into squamost cell, cubodal cell, and bessl celled forms. The cubodal cell and bassl-cell forms were subdivided int two groups driftuse and sirvolar.

In the differential diagnosis it was necessity to rule out cervical lymphatenitis, benigs branchial cleft cysts, malignant lymphatenitis and metastarse from carcinoma of the nead almosts or structures

of the throat

These immors constitut single pathological earlity grading from the less differentiated basel-one form through the cubolidal-cell form to the ment highly differentiated againston-cell form. Surgery

is slightly more favorable in the last two forms than in the first form. Irradiation is probably advisable in conjunction with surgery in all forms, but particularly in the basal cell form. In advanced and inoperable cases palliative irradiation may be helpful.

JOSEPH K. NARAT, M. D.

Starr, P, and Patton, H Observations of Remissions in Hyperthyroidism Induced by Pregnancy-Urine Extract Ann Int Med, 1935, 8 825

Thirteen cases of hyperthyroidism have been treated with extract of pregnancy urine and theelin The usual course of the treatment lasted for from four to five months, the shortest was two weeks and the longest seven months Remission of the hyperthyroidism occurred in seven of the cases cases in which the treatment failed were those of a boy a woman two years past the menopause, a woman with hypertension and nodular goiter of twenty-three years' duration, who was at the menopause, a woman in whom a remission had been induced but an infection of the upper respiratory tract developed, a woman of thirty four years who had had two pelvic operations for infection and adhesions, in one of which the right ovary was removed, and a Negro woman with excessive, atyp ical myasthenic hyperthyroidism. As the women in whom the treatment was successful were definitely below the menopause and had no history of ovarian disease, it appears that the induction of a remission by extract of pregnancy urine is dependent on normal ovarian function

At the present time it is impossible to present physiological proof that the remission in these cases may be attributed to the extract of pregnancy urine and theelin as the mechanism of such an action is unknown. Nevertheless, remissions occurred—abruptly in the healthiest adolescent girl and more gradually in the women. In two cases the return of menstruation, which had ceased during the treatment with extract of pregnancy urine, was coincident with remission as evidenced by a gain in the weight, which previously had been stationary, and reduction of the metabolic rate to, or nearly to, normal.

### Kernan, J. D., and Schugt, H. P. Abscess of the Larynx and Its Treatment Ann Otol, Rhinol & Laryngol, 1934, 43 1009

Abscess of the larynx has been called "œdema laryngs," "œdema glottidis," "laryngitis submucosa," "laryngitis œdematosa," "laryngitis phlegmonosa," "angina laryngea infiltrata," "laryngitis seropurulenta," "angina laryngea œdematosa," and "abscessus larvngis" All of these terms refer to a condition which develops from a so called laryngitis submucosa and may progress to any of the following stages of development (1) œdema of the larynx, (2) perichondritis of the larynx, (3) abscess of the larynx, and (4) phlegmon of the larynx

The traumatic form of laryngeal abscess is the only one that has its origin in the larynx itself. All

other abscesses of the larynx must be considered secondary to infections of a general nature or occurring in the vicinity of the larynx. Formerly, typhoid fever was the most common infection. More recently the majority of the abscesses reported have followed grippe or have occurred in association with an acute tonsillitis and pharvingits. Infections localized primarily in the throat may reach the laryny by superficial spread or involve it by way of the blood stream.

The symptoms of larvingeal abscess are pain, which may be spontaneous or noted only on pressure or swallowing, hoarseness, which may vary considerably in intensity, and dyspince due to odema about the site of infection.

In the adult, there may be osteomyelitis of the ossified cartilages when the disease has persisted for some time. This may be associated with chronic swelling, a discharging sinus, and sequestra formation.

In infections of the thyroid cartilage the outer wall and the floor of the pyriform fossa bulge up ward. This bulging has been regarded as pathognomomic of an exudative process in the thyroid cartilage. If only the floor of the pyriform fossa bulges upward the disease process may be in the vicinity of the thyroid cartilage as well as near the cricoid cartilage.

Marked swelling of the ventricular bands indicates involvement of the thyroid cartilage, whereas swelling of the posterior wall of the larvinx beneath the larvingeal aperture is more indicative of involvement of the cricoid cartilage.

The cricoid cartilage is least often affected in abscess formation and perichondritis, but the cases with involvement of this cartilage have the most serious complications and are the most difficult to treat. In the characteristic picture of cricoid cartilage involvement there is a marked swelling of the lamina cricoidea, particularly of its pharin geal surface, which bulges in a tumor like swelling pushing the entire larynx forward and thereby blocking the pharynx Difficulty in swallowing is more marked than in any other form of inflammators disease of the laryngeal cartilages In addition, swelling and fixation of the ary tenoids usually occur if the infection involves the entire lamina cricoidea If the infection is limited to one side of the lamina cricoidea, the opposite arytenoid is more or less freely movable. This is the case fairly often because the lamina consists of two lateral bony nuclei separated by a cartilaginous central portion

With regard to the treatment of perichondritis or abscess of the larynx there is considerable difference of opinion. Some laryngologists advocate conservative treatment while others advocate the most radical surgical procedures. Since in most of the cases seen formerly the condition was a complication of typhoid, and since in this infection several of the laryngeal cartilages were usually affected at the same time, it is understandable that a radical procedure was advocated because of the frequency

viscosity of the saliva. The patient complains of dryness of the mouth and difficulty in swallowing or expectorating the secretions. At the beginning of treatment the thora order injection of the month every two hours with solution of sodium blear bonate in warm water This is done with a s-qt. irrigating can, rubber tube, and glass nozzle Dysphagia is present in some degree in all cases in which a macacitis is produced in any portion of the pharyny between the soft palate and the pyriform sanuses. In most cases soft or Mould food can be taken in sufficient quantity t maintain the patient weight t the time of his dimission to the hosnital. In some cases, especially those of involvement of the hypopharynz, the dysphagis may be more marked because of the combination of pain and swelling of the arytenoids at the height of the reaction

Prophylactic tracheotomy abould be considered in all cases of growths involving the arytenoids, ventricular folds, or vocal cords if tracheotomy becomes necessary it should be done before beginning treatment in order to avoid the necessity if opening no tissues in which there is marked radiation reaction and of intercepting the sequence of treatments. While the skin is in a dry state of the authors use frequent applications of subscript of without any other dressues. Where the surface becomes moint they apply single layers of green becomes moint they apply single layers of green bandage impregnated with boric and others, and roatinue than dreading until helming has these place and the skin is segain dry and boke.

Of 240 patients treated during period of tyyears, 4 (so per cent) remained free from descess for a period of from one and three quarters to two and one half years. Tealword to the latter have been free from disease for from two to to o and one half years. The relatively better proposeds in the cases of feenables has already been emphasized by Control Free average go of the patients was about the same in the cases with necessful results and these with wannessmall results. Practically, all of the patients with uncertaint results defect of per viscously descent the patients of the patients with uncertaint results defect of years.

successful local result was obtained Tourse E. Kazar M D

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Fay, T The Treatment of Acute and Chronic Cases of Cerebral Trauma by Methods of Dehydration Ann Surg., 1935, 101-76

Fay states that statistics show a definite reduction of the mortality (114 per cent) in cases of acute cerebral trauma treated by dehydration therapy In his treatment of such cases the usual conservative treatment, including the administration of 50 c cm of a 50 per cent solution of glucose, is given during the period of shock, and from 100 to 300 c cm of saline solution may be given to combat severe bloodvolume loss of fluid After the period of shock a lumbar puncture is done, roentgenograms are made, and the wounds are sutured Hypertonic solutions are given by mouth, rectum, or vein, depending upon the general state of dehydration If the spinal fluid 18 clear, 20 oz of liquid and a "dry" or solid diet are allowed If the spinal fluid is blood, 30 oz of liquid are allowed and this amount is maintained until daily spinal drainage is discontinued upon the recovery of xanthochromic fluid. The patient usually leaves the hospital after from ten to twelve days and on discharge is given specific instructions as to diet and the maintenance of dehydration The daily weight is used as a guide to water storage as 1 pt weighs approximately I lb

The author has found that when a solid dry diet and a total of 20 oz of fluid per day are given, consciousness returns, the patient is free from headache, and little or no spinal fluid need be removed by lum bar puncture after the second day. After their discharge from the hospital, his patients usually receive 32 oz of fluid daily for the next three months Follow up findings in the cases of patients main tained on a fluid balance after discharge from the hospital have shown 92 per cent to be free from the usual post traumatic syndromes

ROBERT ZOLLINGER, M D

# Pendergrass, E. P., and Hodes, P. J. Dilatations of the Cavum Septi Pellucidi and Cavum Vergæ Ann. Surg., 1935, 101 269

Three cases of dilatation of the cavum septi pellucidi are reported. All of the patients showed a quantitative intellectual reduction with inability to concentrate. Two showed a tendency to be euphoric and jocose. All suffered periods of unconsciousness at irregular intervals, and two had clonic convulsions. Among other signs were speech defects, incomplete motor weakness of the extremities, severe headache, loss of deep sensation, and ataxia. In one case there was a loss of part of the visual fields. The picture differed from that of

lesions of the corpus callosum in that somnolence and motor apraxia were absent

As seen in ventriculograms and encephalograms, the normal septum pellucidum ranges in width from 15 to 3 mm. A greater width should arouse the suspicion of a non-communicating dilatation. In the communicating type of dilatation an air-containing space is seen separating the lateral ventricles. The roof of the cavity is at about the same level as the roof of the inner aspect of the ventricles, the medial and upper walls of which are sharp rather than rounded off. The floor is at about the same level as that of the lateral ventricles. Laterally the cavity is the shape of a gourd with the large rounded end anterior.

The cavum verge presents the same appearance in the anteroposterior and postero anterior views, but when viewed laterally the dilatation suggests an hourglass. The cavum septi pellucidi, becoming narrower posteriorly, widens into an oval cavity which is interpreted as a dilated cavum verge.

JOHN WILTSIE EPTON, M D

# Cowan, A Ophthalmic Symptoms in Brain Abscess Ann Surg, 1935, 101 56

The author reviews the ophthalmic symptoms in forty-four cases of verified abscess of the brain

Of the seventeen cases of abscess of the frontal lobe, ocular signs or symptoms were absent in only one In five, the abscess caused exophthalmos, swelling of the lids, chemosis of the conjunctiva, and pain Orbital involvement was present in seven cases without exophthalmos. In one case, pain and tenderness of the lobe were present, and in another there was lagophthalmos. All of these findings occurred on the same side as the abscess. Bilateral choking of the optic disks was found in 82 3 per cent of the cases of this group. The average elevation was 4 diopters. In three cases the choking was higher in the homolateral eye, in three it was lower, and in seven it was the same in both eyes.

'Choking of the disks averaging 3 9 diopters occurred in 55 5 per cent of nine patients with abscess of the temporal lobe. In three cases the choking was always greater, and in two it was eventually greater, in the homolateral eye. Homonymous hemianopic fields corresponding to interference along the optic tracts on the side of the lesion were found in three cases. Homonymous hemianopism on the opposite side was found in one case and a corresponding inferior homonymous quadrantanopia in another. In two cases the pupils were unequal and showed a sluggish response to light. In both, the smaller pupil was on the side of the lesion.

In 42 8 per cent of the seven cases of abscess of the parietal lobe there was an average choking of

of attacks of choking and strangulation. The proposeds was decidedly better when operation was 108 proximina was occasedly better when operation was performed. However in cases of perichosoditist of the perichosod of th Joho I & grippe or an infection of the neighboring issues the includence of a said type of the condition is abled recovery results without operation [] abled recovery results without operation [] is left than the includence of severe types. The

ere ict man toe nocrossic or severe types and reason for this is that infections limited ; the any tenodal occur more often in the latter group than in the case due to hopold. If necrotis of the critorid occurs, the danger is just as great in cases of cruciu occurs, tox canger is just as great in case; non typhold origin as in those following typhold

on I) prooff origin as in those touch as 17 prooff.
The authors believe that if dyspams is present Ine authors propers that it dysterms is present trachectomy should be done early. In militarial tracneotomy around be done early in unitateral perfections with similed t the aryteroid it is saf t Persenondritts amited t the arrienous it is an it will, but bulateral invol ement very often causes wait, but materal involence with order causes sufficient and tracheotomy is necessary to refere sources and realist control of the security of the total control of the certifier monthly received if it does not receive in a ret, the presence of ostcomyelitis of the about seek, the presence of ostcomyclitis of the ryt node is to be assumed and treatment for this ryt nosa is to be arruned and treatment on tues condition should be given through a larrangeously

condition anough be given involving a introducing the (lar) ngohasure) It is not necessary ; remove the cultre anytenoid, but the medial surface should be cours asystemen, not the metros cavity with a very curetied out into the marrow carrily with a very sharp curette. If the entire an tenoid or is greater anally surette is the cause any tenority or its greater part is sequentiating, removal of all or most of the part is acquestrating, removas or all or meat or the any tenored is necessary. This can be done without danger of causing a functional dutarhance, prospred the letters bottloo a to it smeans street ments in lett | 1 ct. | cases of widespread infection ments to settle ( ct. i cases of storespress uncerson and destruction of the thyroid cardiage. Ith the and ocatroction of the tayroid cartiage the the colooki, extensive exposure of the lary as by lary god injection of the thirtog cartilate spots is bacteria the cartilate pould be extended through a external increment the mount or exposed (arough a external inchion, the break than the br macased parts removed, od the becas thus drained. This procedure is very simple if factus arained ima procedure is very awayse it mortus the street of the carried and the carried of the larger aboutd not be made them 1 is argently for the carried of the carried of the larger aboutd not be made them 1 is argently for the carried of the c lagicated Change superacons peccesses of the institute armin, supplicably cause less signs. The torring carriage accusances be trade from the appear

As rule outcom din is present in infection of As rule octeon citi is present in intertion of the cricoid Therefore search should be made for ance of the pyriform forms the infective area in the region of the cambed parts toe injective area in toe regard or the openior parts it the cutter carriage is desire) of up the larger transity collapses and marked stenous Sometimes bowerer releation of portions of the errorst a li present such codapse. An effort or the checks a prevent such courses. An enter should be made to as as much of the certifiage as

Cartibage winch is in part still firmly adherent to surroundings should not be considered secretic and should therefore not be removed. E. en cartiand should include not or ignored back but have lage that he occu using gen can best onch mit page.
This is true of the vanous hayagest cartilages anis is true of the various taryingtal cartinges.
Accordingly the surgious should not be too radical. noticement) the surgicus amount any use the record a treating the criced as its preservation is necessarily to make the crited as the largest Affected agree to make than the function of the largest Affected.

part of the thyrold, especially the cartilaginous portions that have become separated from their portions that have necome separated from their serichondrisms, can be removed without hesitation penenonanem, can be removed without bestation Almost the caute thy rold cartilage can be removed numers the cause rayroid cartings can be removed without impairing subsequent function. However, it I not advisable to free the perkbondrien from the i now surreadure to tree the perichonaries from the cartilage by means of a clevator without good cartilage by means of a elevator without good reason as cartilage which is firmly adheren is

reason as carmage most always brailing made in the case of a most always brailing and states in cartilize 7 and a microscopic studies made in cartilize yard a microscopic studies made in the case of a child ten years old showed that defects in cartilage cannot by infections may become rapidly covered caused by intections may become rapidly covered with connective tissue growing from the perwith connective tissue growing from the perconsultant, and that has more contains carriage formed by the perichondrium in relatively about time. The perichondrium is bid to form both time. time are periculous in the periculous of cartilage and bone flowerer, regenerations of destroyed cartilage are only slight. The formation destroyed cartuage are only angut. 100 townstand of bone takes place cheeky; the gramulation throat, or none takes place charge; the granulation thron-in which ralands of carcoblest are found. The in which minds of cateoblast are lound line rescurrance occurs caucity near the occompanies for and t kes place in the boxes a well 5 the

Martin, H. F., and Michattin, R. F., The Treet, and the reserver, Feestl, and ment of Cancer of the reserver, Feestl, and the reserver of Extraord Laryer by Divided Descent of Extraord Carriers of Laryer by Residuation. perioricum

Pharyages tumors in general, despite their histological haracter are more often radiografic misosopical naracter are more often rancomment than tomors of the adjacent oral cality fairhouse than tumors or the anjacent oral ca ity matter laryax, or desophagus Lesions of the check (bactel ELFORE, or creoplasms Lessons of the operation of the microsa) alreads ridges, anterior portion of the morosa airrosa nogra, amenor portosa ocura tongrae, nd hard palat (end to be more adult in tonges, no saru paint tend to be more adulta character nd less radiosemative. Except in case of termor of the total and intrinsic larying even in to come or the transmitted military of susainfactory orratina i francación la cioxum se amazonación.
Although tousular growths are emperally accessible. the results of their treatment by operation are poor to results of their treatment by operation are poor and the results of the treatment by operation are poor to results of the treatment by operation are poor

earry caseer or the trissection of total lary sections moved by hermitary sections of total lary sections norms or semilars agreerony or total lary specious, has yielded excellent result although these spers tions at any cause partial or total loss of lary partial large partial or total loss of large partial or total loss of lary partial large partial or total loss of large partial or total los ternal tradition is justified in operable cancer of the resonanciary ox is as et un proved l'afector et les increase Lity us as et universe et laiecules a les tumors does not contra polical treatment by the frac tenum uses not contra neural treatments) use uses though method. Central sections of the transce man or a progenic abserts a thin the growth before the disconnect is bright to make handpoint of proposes, but is res cees so also excluded of irrestment is possible. The attention treatment is begun is seemed or treatment is possible. The states were hose default greens form of norsigen treatment. one occupi greers form of romine arrangements and trackers are seen except the are of the Mn portal and the moral of

every one time of for his portal and the monate the daily done. The technique is as follows. Rocatgen in 1,700 k. (peak) a discussion of Rocatgen in 1,700 k. for the young the intermediate of the state of the control of the form 50 1 00 cm Entration in in 5 mm as a man a graph of (b) 50 mm at man of (b) 5 mm and a man of the current of ( ) 4 mm or (b) 5 mm and a man of the current of the curr

Roraten rays 1700 L Moratgen rays 1 700 k (equivalent) and a cut filterbook with 5 mm (equivalent) and a cut rent of from 5 t 6 mm 3 Radium element pack with filtration by 20 mm Pb (equivalent), a distance of from 10 to 15 cm, and an applicator portal 10 cm in diameter

The radium-element pack contains 4 gm of radium. As vet, it is impossible to express its output in reentgens as the measurement of gamma rays in roentgens has not been settled to the satisfaction of

all radiologists The authors state that in 1931 they began using open portals from 80 to 150 sq cm in area skin portal must obviously include the primary lesion and all cervical metastases within the range of the primary beam. One of the advantages of a large skin portal is the assurance that all foci of the disease are included However, there is a definite relationship between the size of the portal and the general tolerance with equal doses expressed in roentgens This being true, it seems illogical to use portals from 10 to 12 cm in diameter in treating a localized lesion alone or with a superimposed metastasis 2 or 3 cm in diameter. While larger portals undoubtedly deliver a greater tissue dose at a depth, the limits of tolerance are approached too closely in the use of such portals. The authors therefore employ smaller portals more carefully centered over the lesion itself

If the beam of irradiation is limited by a metal cone attached directly to the tube holder, it may be accurately centered and directed over the desired tissue volume. Such a cone is of practical value for several reasons. As it is placed in contact with the skin, exact localization of the skin portal is more readily accomplished from day to day, especially if the skin ismarked with a dive such as gentian violet. The patient is much less apt to move as the cone placed against the skin surface area of a circular portal is greater than a square portal. The authors recommend that circular rather than square or oblong skin portals be employed whenever possible

In most of their pharyngeal and laryngeal cases they have used only 2 portals-1 on each side of the neck. In some cases of palatal, tonsillar, or upper pharyngeal wall carcinoma they have found it of advantage to irradiate through the open mouth with the use of a mouth cone. In lesions of the posterior nasopharynx they employ 4 portals if there are metastases to the neck. In irradiating cancer of the anterior floor of the mouth, 3 portals may be used—I on each cheek and I in the submental region, the irradiation being directed so as to crossfire the primary lesion The maxillary antrum is usually irradiated through 1 portal although in some cases it is of advantage to use 2 contiguous square or oblong portals on the same cheek treatment period and the total dose are increased if this is indicated by the clinical course and local and general tolerance Using portals from 7 to 10 cm in diameter (from 40 to 80 sq cm) the authors begin with a treatment of from 350 to 400 r (measured in air) daily to alternate sides of the neck so that at the end of 20 treatments the patient has received from 3,500 to 4,000 r to each side. In the use of the

700-kv machine with a filter of 5 mm Cu (equivalent), from 400 to 450 r are given daily, a total of from 4,000 to 4,500 r being administered. With the element pack, the authors give about 10,000 mgm - hr daily (cone 10 cm in diameter) for a total of 100,000 mgm - hr in three weeks. They see no advantage in interrupting the treatment to allow the patient several days of rest before completing the original plan, as is recommended for some cases by Coutard

With the doses mentioned there begins, in from six to ten days, a mucositis of the pharinx, most commonly first in the soft palate, the arytenoids, or the arvepiglottic folds. This increases steadily throughout the treatment and usually goes on to the development of a false membrane of diphtheritic appearance which may cover the mucosa of the entire pharinx The lesion reaches its maximum from twenty to thirty days after the beginning of treatment and usually disappears in about ten days It is followed by a decrease in the congestion and adema. The adema may persist for several weeks or months, depending largely on the total dose given In cases of lympho-epithelioma or transitional-cell carcinoma regression of the tumor may begin as early as the fourth or fifth day, but is usually not apparent until after the first week. The skin reaction appears later than the mucosal reaction definite erythema of the skin is usually apparent after from seven to ten days, but as a rule the skin reaction does not reach its maximum until about twenty days after the beginning of treatment. In most cases it consists of destruction of the entire epidermis leaving a raw weeping surface which bleeds on slight trauma

With the use of large fields and heavy doses, the limit of the patient's general tolerance is reached before the limit of the local tolerance and there is produced a chronic irradiation sickness which is not due to dyspnæa, lack of nutrition, or changes in the skin or mucous membrane The patient becomes listless, weak, and toxic, loses weight, and develops cachexia This condition is probably due to the volume of tissue irradiated rather than the local intensity of the effect or may be the result of partial derangement of the function of the various glandular, vascular, and nervous structures of the neck. It can be prevented by avoiding the use of large skin portals except when they are required by wide distribution of the disease. The authors have found no changes in the blood picture that could be attributed directly to the irradiation

Loss of weight during and following treatment is due to lack of sufficient alimentation. Even at the height of the reaction, most patients do not complain of local pain while the tongue and pharynx are at rest. Any motion of the tongue and pharynx, as in the act of swallowing, is quite painful, but the local symptoms seldom require the use of narcotics, even for sleep. Beginning about four or five days after the first treatment, there is a progressive diminution in the quantity and an increase in the

viscosity of the saliva. The patient complains of dryness of the mouth and difficulty in wallowing or expectorating the secretions. At the beginning of treatment the authors order brigation of the mouth every two hours with a soletien of sodium bicar bonate in warm water. This is done with a r-ot. irrigating can, rubber tabe, and glass norde Dysphagia is present in some degree in all cases in which a macositis is produced in any portion of the pharynx between the soft palate and the pyriform sinuses. In most cases, soft or liquid food can be taken in sufficient quantity to maintain the patient a weight at the time of his admission to the hospital In some cases, especially those of involvement of the hypopharyms, the dysoharia may be more marked because of the combination of pain and swelbar of the stytenoids at the height of the reaction

Prophylactic tracheotomy abould be considered in all cases of growths involving the arrivatedox, ventricular folds, or vocal cords. If tracheotomy becomes necessary it abould be done before beginning treatment in order to avoid the necessity of occessor we have a which there is marked radia. then reaction and of interrupting the sequence of treatments. While the skin is in dry state, the authors use frequent applications of relacal all without any other decrease. Where the sertices becomes mosts they poly single layers of genes bundage impregnated the bork acid obstressed, and continue this dreasing until healths plus raives

place on the tkin is again dry and whole
Of 140 patients treated during a period of two
prairs, 41 (so per cent) remained free from disease
for period of trom one and three-quarters to tree
and one half years. The dry of the latter here been
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# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Fay, T The Treatment of Acute and Chronic Cases of Cerebral Trauma by Methods of Dehydration Ann Surg, 1935, 101 76

Fay states that statistics show a definite reduction of the mortality (114 per cent) in cases of acute cerebral trauma treated by dehydration therapy In his treatment of such cases the usual conservative treatment, including the administration of 50 c.cm of a 50 per cent solution of glucose, is given during the period of shock, and from 100 to 300 c.cm of saline solution may be given to combat severe bloodvolume loss of fluid After the period of shock a lumbar puncture is done, roentgenograms are made, and the wounds are sutured Hypertonic solutions are given by mouth, rectum, or vein, depending upon the general state of dehydration If the spinal fluid is clear, 20 oz of liquid and a "dry" or solid diet are allowed If the spinal fluid is blood, 30 oz of liquid are allowed and this amount is maintained until daily spinal drainage is discontinued upon the recovery of xanthochromic fluid. The patient usually leaves the hospital after from ten to twelve days and on discharge is given specific instructions as to diet and the maintenance of dehydration The daily weight is used as a guide to water storage as I pt weighs approximately 1 lb

The author has found that when a solid dry diet and a total of 20 oz of fluid per day are given, consciousness returns, the patient is free from headache, and little or no spinal fluid need be removed by lum bar puncture after the second day. After their discharge from the hospital, his patients usually receive 32 oz of fluid daily for the next three months. Follow-up findings in the cases of patients maintained on a fluid balance after discharge from the hospital have shown 92 per cent to be free from the usual post traumatic syndromes.

ROBERT ZOLLINGER, M D

#### Pendergrass, E. P., and Hodes, P. J. Dilatations of the Cavum Septi Pellucidi and Cavum Vergæ Ann. Surg., 1935, 101–269

Three cases of dilatation of the cavum septi pellucidi are reported. All of the patients showed a quantitative intellectual reduction with inability to concentrate. Two showed a tendency to be euphoric and jocose. All suffered periods of unconsciousness at irregular intervals, and two had clonic convulsions. Among other signs were speech defects, incomplete motor weakness of the extremities, severe headache, loss of deep sensation, and ataxia. In one case there was a loss of part of the visual fields. The picture differed from that of

lesions of the corpus callosum in that somnolence and motor apraxia were absent.

As seen in ventriculograms and encephalograms, the normal septum pellucidum ranges in width from 1 5 to 3 mm. A greater width should arouse the suspicion of a non-communicating dilatation. In the communicating type of dilatation an air-containing space is seen separating the lateral ventricles. The roof of the cavity is at about the same level as the roof of the inner aspect of the ventricles, the medial and upper walls of which are sharp rather than rounded off. The floor is at about the same level as that of the lateral ventricles. Laterally the cavity is the shape of a gourd with the large rounded end anterior.

The cavum vergæ presents the same appearance in the anteroposterior and postero anterior views, but when viewed laterally the dilatation suggests an hourglass. The cavum septi pellucidi, becoming narrower posteriorly, widens into an oval cavity which is interpreted as a dilated cavum vergæ.

JOHN WILTSIE EPTON, M D

# Cowan, A Ophthalmic Symptoms in Brain Abscess Ann Surg, 1935, 101 56

The author reviews the ophthalmic symptoms in forty-four cases of verified abscess of the brain

Of the seventeen cases of abscess of the frontal lobe, ocular signs or symptoms were absent in only one. In five, the abscess caused exophthalmos, swelling of the lids, chemosis of the conjunctiva, and pain. Orbital involvement was present in seven cases without exophthalmos. In one case, pain and tenderness of the lobe were present, and in another there was lagophthalmos. All of these findings occurred on the same side as the abscess. Bilateral choking of the optic disks was found in 82 3 per cent of the cases of this group. The average elevation was 4 diopters. In three cases the choking was higher in the homolateral eye, in three it was lower, and in seven it was the same in both eyes.

Choking of the disks averaging 3 9 diopters occurred in 55 5 per cent of nine patients with abscess of the temporal lobe. In three cases the choking was always greater, and in two it was eventually greater, in the homolateral eye Homonymous hemianopic fields corresponding to interference along the optic tracts on the side of the lesion were found in three cases. Homonymous hemianopsia on the opposite side was found in one case and a corresponding inferior homonymous quadrantanopia in another. In two cases the pupils were unequal and showed a sluggish response to light. In both, the smaller

pupil was on the side of the lesion

In 42 8 per cent of the seven cases of abscess of the parietal lobe there was an average choking of 5.3 diopters. The only external ocular size was paralyses of both external recti muscles in one case In three of the seven cases there were no ocular signs or symptoms

Of the four cases of abscess of the occinital lobe. the optic disks were affected in all. In the three cases in which it was measurable, the choking ver aged 5 8 diopters. A patient with healtar memoritis

presented bilateral prosis In 41 8 per cent of the seven cases of abscess of the cerebellum the optic disks showed an verage elevation of a coppters. In the cases wardety of nystagmoid movements occurred, and in one case there was parents of conjugate upward rotation Ophthalmic signs or symptoms were present in all

but one case Of the entire series of cases, choking of the disks was found in 6x 6 per cent. The fact that fourteen of the twenty-eight patients with affected nerve beads had an uncomplicated papillerdoma suggests that, in abscess of the brain, choled disk is due to increased intracramal pressure justeed of the absorption of toxic material However ! thirteen patients the degree of choking remained the same or was increased after operation

One or more ocular signs or symptoms were found in all except mx of the forty-four cases of abscess of the bram ROBERT ZOLLINGER, M D.

Adson, A. W. and Craig, W. McK. The Surgical Management of Brain Abecess, A s. Sery

Adson and Craig report a clinical and postmortem review of ninety-seven cases of cerebral abscuss which were treated by five surgeons in the Neurosurrecal Department of the M yo Clame Forty of the abscrees were attuated in the frontal lobe, thirty-six in the temporosphenosdal, tw. in the oc crostal, and thirteen in the cerebellar. The remaining us had miscellaneous distribution

Because of the greater frequency of becomes in the temporomberoudal lobes than in the cerebellum, Adson and Craig he a made t rule t emplore the temporosphenoidal lobe before exploring the cere bellium on the side of the infected car when cerebral abacenes follow infections about the ear with indefinite localizing symptoms or conflicting agas of localhaton

In re reading the protocols of Macewen cases of cerebral shoces, they were impressed by the fact that in most of the cases there was a kistory of orrebral infection of fortnight or more. They believe that Macraen excellent results ere due chiefly to the fact that sufficient time elapsed for impurity and excapsulation t become established before operation was undertaken

They state that Inle the surgical drainage of a brain becam removes ctive organisms, t is probably more beneficial in disposing of the intracerebral mass. The arguments for delaying the drainage of cerebral becess ustal it as mature—that is, until the occurrence of encapsulation. hick suggests the es-

tablishment of immunity-are comparable to those for the delay of drainage of other inflammatory lesions of the body Drafaage of the abdomes is rarely advised for acute pentonitis, whereas it is urged after an abscor has been formed

The authors advocate supportive treatment dur ing the initial stage of injection and delay of drainage until the chuical signs indicate the establishment of immunity They prefer adequate continuous drainage through a surgically scaled cerebral wound to the various conservative and ultraradical measures that are employed.

Bonnett A. E., and Kaegan, J J : Corsbent Nonpleasure The Diagnosis in the Absence of Generalized Intracranial Pressure Phenomena. J 4 = 1/ Atr 935, at a

The authors present twelve cases of crastal secplasms in which the characteristic triad of symptoms of generalized increased intracranial pressure was absent. None of these cases presented changes in the fundi, and in only two of them was the soluti

fluid pressure bove

ald pressure bove mm Hg. A review of the literature shows that headachs. the most prominent symptom of brain times in absent in at least per cent of cases Papallerdama is absent in from 5 to 50 per cent, and vomiting le even less frequent. Headache, vomittes, and papillordems are present together in only about to per cent of the cases. Local pressure signs caused by intracerebral calcification, rarefaction of bone, increased duploic vessel markings, and ablitha of the pineal shadow are very important in the early diagnous of brain tumor before the onset of facrossed intracranial presents. Among the common early signs of brain tumor are epiloptiform attacks grand mal, potit mal, or jacksonian schures. Frontal lobe neoplasms are often manifested first by perchic disturbancos.

In the authors' twelve cases the recet valuable single early diagnostic sign was focal spasm. Jack somen sciences occurred in eight cases. The earliest symptom in one case was semerium change in third proanother progressive blindness in greates choresform movements in a fourth, recer rent hemiparetic attacks and in fifth, lethour with diplopis. In six cases, the roentgenegram showed localized changes suggestive of localized pressure with other conditions suggestive of an intracranial peoplasm. In seven cases exceptatographic studies were made and led t the diagnosis and accurate localization of a tumor. Four of these cases presented marked distortion, compression, and displacement of the lateral ventricles, indicating a large tumor but there was no definite increase in the latracranial presente D vin Jose Insustato, M D

Harding, H. E., and Natsh, A. F., Mined Turners of the Brain. Lences, 935, 18 77

Two cases of mired tumors of the brain are report ed. One of them showed characteristic elicturbances of ledon i the hypothalamic region

In 1030, Hosoi reviewed seventeen cases of teratoma and twenty-three cases of teratoid tumor and reported a case of teratoma In all, the tumor was at or near the midline, and in most of them it originated in the pineal body or the pituitary Less frequent sites were the choroid plexus, the tela choroidea of the third ventricle, the brain substance itself, the remon of the tuber anereum, the cerebellum, the cerebellopontine angle, and the inner surface of the dura mater In size, the tumors varied from that of a split pea to a neoplasm measuring 8 by 10 by 12 cm. Most of them were cystic Ectodermal and mesodermal structures were most Most of the teratomata occurred in frequent males, and 78 per cent of the patients with a teratoma were under twenty years of age. In one of two cases reported more recently, the tumor occupied the distended sella turcica. In the other, there was a large cyst in the right hemisphere which was unique in being situated away from the midline

In one of the two cases reported by the authors a lobulated cystic mass measuring 21/4 by 11/4 in occupied the entire cavity of the fourth ventricle and the foramen of Luschka and Magendie was occluded by thickened meninges. The patient was a girl six weeks old who was brought for examination because of a swelling of the anterior fontanelle which was first noted four days previously Before the child died at the age of one year, enormous enlargement of the skull occurred. In the last two months before death the circumference of the head

increased from 1734 to 22 in The author's other case was that of a girl nine years and eleven months old As an infant, this patient had slept motionless and for longer hours than the average Later she was noted to be very undemonstrative, never showing joy or excitement She apparently felt fear of loud noises, darkness, solitude, and certain persons. She told her parents she was afraid, but her expression and voice were calm She evidenced anger only by a sudden refusal to comply with suggestions She had some sense of humor and would laugh at a funny situation She was very loyal to her parents and a few friends, but to callers and acquaintances was so off-hand as to appear rude She was resistant to suggestions All her life she was subject to frequent sudden rises followed by sudden falls of temperature hearing was acute, her mentality good, and her memory excellent Her balance was never good, she had less than average ability to recover after

Three years before her death she had mumps and whooping cough in quick succession, during which illnesses she showed marked wasting Immediately after these illnesses she drank large quantities of fluid and passed large amounts of pale urine The polyuna continued until five weeks before her death. when it ceased abruptly. After the illnesses the patient showed a further diminution of emotional reaction During the next winter she felt the cold intensely During the heat of the summer before

her death the sensation of cold became so severe that she wore a coat at meals The feeling of cold ceased abruptly about three weeks before her death Following the pertussis her powers of concentration steadily decreased. About five weeks before her death her vision failed rapidly, but she admitted it only after attention was called to it by her staggering gait

The findings of examination at the time of her admission to the hospital included hypotonicity of the muscles, pallor of the central area of each disk, a comatose condition, and a temperature of 101 degrees F Later the temperature fell to below

normal

On postmortem examination a firm encapsulated tumor with a smooth lobulated surface measuring 2 by 25 by 45 cm was found projecting from the hase of the brain in the hypothalamic region behind the optic chiasm. The pituitary gland appeared EDWARD S PLATT, M D to be normal.

Roger, H, and Paillas, J-E Metastatic Tumors of the Brain (Les tumeurs cérébrales m tastatiques) Presse med , Par , 1934, 42 2003

The authors have been able to collect only about 200 cases of metastatic brain tumor from the literature, but believe they are much more frequent than is indicated by the records

Nearly all brain metastases originate from epithelial tumors, particularly tumors of the lung or breast A brain metastasis may be the first manifestation of an epithelioma of the kidney, suprarenal, or other viscus Lung metastases are generally propagated by the blood stream and involve the parenchyma, while metastases from tumors of the breast are transmitted by the lymphatics or nerves

and involve the meninges or cortex

The chief subjective symptoms of a metastatic tumor of the brain are headache and clouding of the intellect The headache is constant and occasionally is accompanied by signs of increased intracranial tension The clouding of the mind takes place early Both of these symptoms seem to be of touc rather than mechanical origin. In fact, hypertension is relatively rare in their presence. In many cases gen eralized convulsive seizures occur, in some, there are localizing jacksonian attacks. The tendon reflexes are frequently decreased or abolished and the pupil reactions are sluggish. Sometimes there is a mild meningeal syndrome The general condition depends on the primary tumor rather than on the metastases There may be a temperature of from 38 to 38 5 degrees C suggesting encephalitis. The localizing signs are much more difficult to interpret than in cases of primary tumor of the brain. Metastases from the lung are almost always multiple and their localizing signs are very confusing. The eyegrounds and roentgenograms do not show signs of hypertension, and the spinal fluid does not present a characteristic picture.

The course of the condition is generally rapid and ends in death from extreme cachexia. Treatment is generally hopeless, repetally in cases I multiple metastase from the lungs However in cases in which there is a single module from cancer of the hereat it may be successful. Recontgen therapy has been employed successfully by Hugarelin, Myritan, and Lieberron, and the authors report case in which it was followed by cressition of the Jacksonia ttacks and allertation of the bearing-the

AUDERY GOM MOMENT II D

Voris, H. C., Adson, A. W. and Morrech, F. P.

Turnors of the Frantal Lobe: Clinical Observe

tions in a Series Verified Microscopically J

This article reports the findings of an analysis of the clinical observations in series of 3 4 cases of tumor f the frontal lobe observed t the Mayo Clinic p to January out in which the temor was examined microscopically. The cases were classified according to the anatomical site and the nathological type of the lesion. The age and sex of the patients with each pathological type of tumor are given. The authors discuss each type of tumor with regard to the duration of the symptoms before the patients came to the Clinic the initial complaint in relation t the anatomical site of the tumor the frequency of the principal complaints made when the patients registered t the Choic, the principal observations made at examination, including roent genographic examination the mental phenomena and the side of the brain involved by the tumor in relation to the occurrence f grand mal, phasia and mental changes.

Dyke C, G., and Davidoff, L. M. The Significance of Abnormally Shaped Subarachnold Carterns as Seen in the Encephalogram. Am J. Resiposit 934, 32 743

The authors describe deventions in the substruction odd cutterns which era noted in an examination of 300 encephalograms and discuss the relationship of these abnormalities to the discuss process. They conclude that sindy of the substructioned citizens in exceptiolograms and in the diagnosis of tumors, ascentians, and dependentiare or large-plantic ledious chinical histories in reviewed the cutterns. Filters chinical histories in reviewed

ROBERT ZOLLINGER, M D

Gleer M. A.: Turnors Arising from the Sensory Root of the Trigeminal Narve in the Posterior Feen. Aus Swg. 935 146

Tumor of the passed as gaine an exceeding in ret though I at thought that their nurty may be met though I at thought that their nurty may be due long to the their proported under different to their being reported under different discolations of the fifth nerve bick as analogous to the performatis librobiatoms of the eighth acres from this case and three cases collected from the biterature be concluded what chical studies of perseavail fibrobiations of the fifth hearter may be recognized. Turgendual paids is been

because the grangion is not involved, but verkines of tripersiand unvolvement is consistent and early propose. Such involvement is manifested by correase or bease of the correal refer and earst bees over the distribution of the nerve, particularly the ophthalms deviation. We the convacionent of the times on the carebellum, cerebella signs become post received in careful of the convacionent of the times of the cerebellum, cerebella signs become post received in creatal nerve symptoms and practical tractal nerve symptoms and practical tractal nerve symptoms are in practical tractal signs. The bistory is of long duration, with the last development of intracraigle preserved.

Person of remission are characteristic.
In cases of tumor straing in the gaugitos there is small pain as well as anesthesia in the distribution of the tragentian here. Carbellar sipas are en tremely late and occur only with crimenous distributions of the eighth narve may be ready distributions of the eighth narve may be ready distribution to the associated as the loss of learning and certifician, creduling a graphic propose occur first as of the contraction of the

Ostrowski, T., and Dobrandscki, W. Peripheral Facial Paralysis Trusted by Oervical Gandleonectomy (Paralysis Incale phrabbrops truttepar la gazgiactoma cervicale) J & der. 315

TOWN WILLIAM EASTON, M.D.

are of great value

In the treatment of peripheral facial paralysis. various nerve anastomoses have been tried—the best of which is probably anastomous of the facial and hyportogoal perves-but none of them restores facial expression. Letiche in o o, first suggested the sies of correcting the motor paralysis by excitliabling sympathetic paralysis. The authors report in detail five cases in which this as done, and present photographs of the patients before and after the treatment. The superior cervical gazgion as resected under local agesthems. The results on remarkably good. The plasticity of the nuncles and facual expression are restored t degree greater than that observed after any other operation. The authors therefore bebes that that rendeal gas glionectomy is the method of choice for peripheral adal paralyses

Although the reaction of degeneration permits and the paralysis remains, the signs of the puralysis disappear because of the change in seascle touch

brought about by the resection of the grapton. The thore are saide t ergist the reflect of the graphonectomy on the paralysis. They state that all graphanidors advanced are perely theoretical. At all paralysis is affection of miscic tears, they believe it quit possible that surgery of the sympathetic will become the treatment of vanous typeor paralysis.

Peet, M. M. Glosspharynges Neuralgia Surg 035, et 56

Gloropharyngesi neuralgia is rare compared with trigeninal neuralgia, but undoubtedi more common than has been believed From careful study after section of the glossopharvngeal nerve it has been determined that this nerve has no demonstrable motor function and that its sensory distribution includes the posterior third of the tongue, the anterior, lateral, and posterior walls of the pharynx from the lower nasopharynx to the epiglottis, including the posterior aspect of the latter, the tonsil, the pillars, the custachian orifice, and a narrow rim along the front of the soft palate, including the usual

The onset of glossopharyngeal neuralgia occurs without prodromal symptoms or other warning Talking, laughing, coughing, yawning, or sneezing may be the exciting factor, but the most common exciting factor is swallowing Suddenly, during talking or swallowing, a sharp, Lnife-like pain shoots downward from the ear, the base of the tongue, or the posterior pharynx. It is gone almost as soon as it begins. As in trigeminal neuralgia, the pain occurs in paroxysms and is variously described as sharp, shooting, lancinating, knife-like, jabbing, or flashing As a rule even the first paroxysms are described as excruciating, but in exceptional cases the patients state that the initial attack was mild although the pain was sharp. After the onset of the condition the pain is produced by stimulation of trigger zones and by talking, laughing, or eating In the cases in which the initial attack is mild, the onset of severe symptoms is usually not long delayed As in trigeminal neuralgia, there are intermissions and remissions and the pain may be confined for a long time to a single division of the nerve Also in both types of neuralgia, physical examination is negative with reference to the painful areas diagnosis is based entirely on the history and the induction of pain when the trigger zones are touched. The cause and pathological changes are not known

Glossopharyngeal neuralgia differs from trigeminal neuralgia in the distribution of the pain. In the latter, the pain occurs in the distribution of the nerve, usually in that of the third division. In the former, it is usually located almost entirely in the mouth, though there may be flashes of pain through to the ear. The trigger zones are also different in the two types of neuralgia, those for the muth nerve being located within the mouth or at the lobe of the ear and those for the fifth nerve generally on the

outside of the face, along the distribution of the nerve

In the treatment of glossophary ngeal neuralgia intracranial section of the minth nerve is the treatment of choice as it is simple and quickly performed, it gives positive assurance against recurrence, and it does not endanger the vagus. A U-shaped incision is made between the mastoid process and the midline posteriorly. The nerve is easily located and divided with a right-angle knife.

Tohn Wiltsie Epton, M D

#### PERIPHERAL NERVES

Saito, M Normal Shadow of the Peripheral Nerves and Their Pathological Change in Injury and Tumor Am J Surg, 1934, 26 300

The author presents a method for the roentgenological visualization of peripheral nerves by the endoneurial or intraneural injection of thorium dioxide solution (thorotrast). He reports the results after the injection of normal ulnar nerves and of injured peripheral nerves with and without neuromata.

The injection of the thorotrast is carried out before, during, and after operation

Saito found that, following the injection of thorotrast, the ulnar nerve could be roentgenographed for a maximum length of 30 mm. The roentgenogram made by this method revealed not only the nerve fibers, but also the internal and external sheaths of the nerve It is therefore possible to use the method for neurohistography When it is applied to an injury of the nerve it will reveal the injured part clearly. As the opaque substance injected into the periphery will not infiltrate into the center over the scar on the nerve caused by the wound, a defect in the shadow will appear at the site of the scar It is therefore probable that the method will be a great help in the roentgenological diagnosis of nerve injuries. If it is applied to the diagnosis of neuroma it will show not only the form but also the structure of the neuroma together with the stem of the nerve penetrating the tumor This being true, it will be quite helpful in indicating treatment. It will not interfere in any way with the function of the nerve or produce any aftereffects such as neuralgia O W JONES, JR., M.D.

# SURGERY OF THE THORAX

# CHEST WALL AND SPEAST

Parriell, R. The Pathoderseis of Cyaric Mantitle Course betoething delta messito carres). Cita chi.

The name cratic fibroals or cratic mastitis is pried t various cytic structures of the breast and prince valence space accounts on use receive and a used t designate a clinical syndrome rather than a used t designate a clinical syndrome rather than a used to definit disease. The name Recins' disease is not definit ocumu macase 100 name anoma umouse 22 nos synonymous with it as Recins described a definit systems which does not include many of the condiunwase annua uses has member many or two comp-tions described as cyclic mostlitis. According to the tions described as cyratic measures from chief theories with regard to the pathogenesis of ever the condition is () neophesic, () offenmetory (3) due to congenital malformations,

od (4) one to investion. The author describes crisic mastitis as a hyper plants and sciences of the connecture teams of the and (4) due to involution plants and scierous of the connective traces without grand and cyatic distantion of the ducts without management of the ducts without stands of management. This distance or households drop of management. grand and Cyane consequence or one during This dis-dincal or handlogical digas of mahranco. This dis-case develops alonely and passes through the followours correspondency and leases through the lease in the large (1) a stage of simple fibrois a th ing infer seages (1) a seage of simple moreus a (2) fee and sight cysic chilatations (1) stage in a high the cysis increase in size and number and (3) stage of papillomators change. The first stage oc curs in young patients and the others are found in prompt patients and the others are found in progressively older persons. The stages are related

The other describes in detail and shows with photomicrographs the instological andings in the protection types the universal accuracy in the case of the women thirty-ax and forty years of ago respectively In both of these cases the instory and the findings of cleaned and histological examination presented that the cause of the disease was the in cases, the development of cysic meating is deter mined by the effect of toxic tuberculous lesion mined by the patient's age and endocrine coodharveen my time particular a age and emisorance coordi-tion. I such clases t occurs at or bout the time of

in other cases in the papillogistous stage there is a narized resemblance makening import, and makeuat degeneration occurs quit frequently Oce menopeuse of the signs in such cases a bleeding of the upple The author believes that when bleeding occurs from

the author occurres that when meeting occurs from the uppole radical removal of the breast should be done even ( the tumor appears bemen

A Contribution t the Knowledge of Peri the Borns of the Bresst (Contribute all coords the morrie of the Breast (Contribute and Contribute trace or periconers or se management street de cles (ere) 934, \$ 1003. BITTL A

Billi reports the case of woman sixty four ) ears of ago a no entered the hospital complaining of

tumor mass in the right breast which had been present for two ) ears. Histological examination of the tamor following its removal aboved it i be perf-

The outstanding microscopic feature of the neophasm was a concentric arrangement of the thellone timos ceja atoring central stand cumor criss around central vesser library and showed little variation is the ners rainer same and anors on nine variation is and They were round, orold, choosited, or stellats. The

They were round, owned, excepting, or artists, the solution was happe and stained deeply, and the occupant of the control was defended by the community was defended by the community of the comm The Protoplars was searce and homographic is stabled poorly. In a few years the endothering scenera powry in a larg yearner to conochross so ex showed problemation which was sometimes so ex

MEYERS ( Invace the inner.) A few months after the operation the patient retenevo as t invade the inner. A new measures after the operation are parent. The terring a th a recurring larger near the sear. The recoord a in a recurring tamox near one sear land inston two found the rounded accomAlthough it seems possible that pertibehorate

nathough it seems possess that perinsenousle may be easily confused a th sarconata and endomay be cassly common a in surcomata and cross of thehomata. Hill behaves that these three types of tureer may be differentiated by careful restoograf rursor may be universitated by careful substitute examination. However, he complaines that the eracumation is possible only by histological examinification is possible only by histological examination.

In the case reported there as not the sagetest in the case reported there as not the segretar temor were identical with those observed in the namer a six sometimes with 1800s concreti in the primary tumor. The only difference was that in the

LECTLIA & TORNOS, NO DELLABRACIDE DEOLOGISE E MONTO

The author between that the surgest interference may have acted as a stimulus ! the transformation 125 demonstrable from one tumor type to the other since I has been tions use tomos type to two ourse times to make the surpcial needscarce, \\_ray or rather than the surpcial needsca not only modify the course and the rat of growth of tumors, but may transform one maligness tumor amore, out may transform one managers turned another with different morphological aspects. The there is of the opinion that the transcreth tour user the opinion that the timer rea-

London A. and Califford, F. Prodet's Discourse of the Mypha (La makedas de Paper des caracters), Press Mypha (La makedas de Paper des caracters), Press Mypha (La makedas de Paper de California de Paris 1944, V 0 1), 18 bether Paget's

discussion a matter or timper person to discuss to disc organic or one supplier is price occurring to securing of chalermal origin, an epidermol rophic manusary or chocemes origin, an enurrinor opini insect cancer official cancer inflowed by timese cancer cancer cursus caseer minored by times cancer an spidermal cancer or an epidermal glandular case. processes a capacity of an especial grandous care.
The thore report in detail the histological cer two thors report in detail the biscondera-fundings in four cases of Paget's discusse in which numings in mer cases or 1-aget's disease in since complete removal of the maximary cland permitted

complete removal or the meanings a sections

416

The findings in these cases did not seem to support the classical theories as to the origin and nature of the tumor The scantiness and frequent absence of dyskeratosis in these cases seemed to indicate that the lesion was not a precancerous condition point of origin of the neoplasm may be in the cylindrical epithelium of the milk ducts, the margin of the epidermized epithelium and the cylindrical lining of a milk duct, a sebaceous gland, a serous secretory gland, or a sudonparous glomerule The rate and extent of the growth of the lesion also vary according When the tumor originates in the epidermized epithelium of the duct it grows both upward toward the epidermis and downward toward the gland When it begins in the cylindrical to its origin epithelium of the duct, the malignant cells extend between the layer of Boll and the cylindrical layer, destroying the latter, obliterating the lumen, and rupturing the membrane and fibro elastic sheath of the milk duct to penetrate the stroma and reach the This type of inepidermis by isolated elements vasion seems to be the most common

Deformities of the nuclei and asymmetry of the

The clear turgescent cells show a tendency toward vacuolization, and the pluricellular confluences ap mitoses are the rule

I mally the malignant cell seems to gain the epiparently explain the theca dermis by its special mobility in the interstitial

The authors reject the conception of dyskeratosis as a concerogenic factor in Paget's disease state that disl eratosis, 2 distrophic condition, spaces could not constitute the precancerous stage of a ma lignant lesson. They believe that the theca has a vacuolar origin and that segregation of the carcinomatous cells plays no significant part The melanoid pigment frequently found in this cancer has quite mother significance than that which prompted Darier to suggest a possible relation between Paget's disease and nevocarcinoma All glandular epitheli omita of the breast propagate to the skin and at the epidermis become pigmented In various tumors the mclanoblasts are not cancerized. They are merely a manifestation of hyperactive tissue metabolism There is no transition from the dyskeratotic cell to

Latent cancer, such as Bowen's discuse and Paget's disease, corresponds to a secreting epithe the Paget cell homa usually of galactophore origin but occasion ally 11-0 of sebaccous or sudoriparous origin. It is quite probable that the epidermis like its deriva tives, may occasionally constitute the initial focus but such an origin can be demonstrated only by

The common embry ogenesis of the original tissues examination of the entire gland of the e neoplasms explains the identity of cellular types noted in each case whatever the point of origin I rom this point of view, Paget's disease is a regional maligrant neoplastic reaction of the ecto derm and its immediate or more distant denvatives

Pfahler, G. E., and Vastine, J. H. The Technique and Results of Irradiation in Carcinoma of the Brenst Am J Roenigenol, 1955, 33 41

The authors have been unable to standardize the technique of treatment of carcinoma of the breast for all cases They adapt the technique to the re quirements of the individual case. As metastasis occurs more readily and widely in fat women, they distribute the irradiation more widely when the patient is fat Also in the cases of fat women they limit the total irradiation in any one field as fat does not stand as large doses as other tissues

The authors describe their technique for irradia tion of primary carcinoma and for pre-operative In the pre-operative treatment, which requires about two weeks, the patient receives from 700 to 800 r divided in 2 doses If she cannot or will not be operated upon, interstitial irradiation with radium is given according to the Keynes technique and this is followed by additional roentgen treatment, the attempt being made to keep the tissues saturated to the limit of normal ussue tolerance during a period of three or four weeks

For the more advanced cases in which the supra clavicular lymph nodes are involved, at least 3 times this amount of treatment is advised If operation is done in these cases it should be deferred

In postoperative cases a similar plan of treatment for two or three months is carried out except that low voltage roentgen rays are used in the mammary region as well as the anterior mediastinal region as here it is necessary to send the rays directly into the chest wall. At least as much postoperative irradiation should be

The authors have treated 22 cases of carcinoma given as is given pre operatively of the breast by the modified Keynes method Of 19 patients with primary lesions, 13 (59 per cent) remained free from gross evidence of the disease for 7 period of from fourteen to trenty-seven months Two were alive a year or longer after the treatment, but showed gross evidence of the disease Three died of the disease and one died of an intercurrent infection. Three who were treated for recurrence died within from six to fourteen months after the

The authors have treated 254 cases of primary carcinoma of the breast by irradiation alone, chiefly treatment roentgen therapy Of 195 patients, 76 (30 per cent) were hving at the end of three years, but 11 still showed evidence of the disease. Of 181 patients treated more than five years before the follow up, 43 (24 per cent) were still alive at the end of that time but 4 still had gross evidence of the disease Of 124 patients treated for inoperable carcinoma, 25 (20 per cent) were still alive and vithout endence of the disease ten years later. Biops es were not

The authors have treated 476 cases of recurrent carcinoma of the breast. In such cases there can be done in these cases little doubt as to the correctness of the diagnosis Of 453 patients, 21 per cent were free from evnils

toms t the end of five years, and of 385 patients; toms I me end of nwe years, and or 300 particular, 8 per cent were free from ymptoms. I the end of 418 recurrence within

ten years

from two t four months has from two t lour months has slightly greater man expectancy than the patient who develops a recor expectancy to an toe patient who occretoes a recur rence later. This is probably due to the fact that rence later and is prousing one; the last that the oather metastages are more radiosensitive. The one cannot measures are more remeasuranter and certific irradiation is instituted after recurrence the

The uthers layer combaned pre-operative and longer the hi expectancy ine utbors is vor command pre-operative and postoperative bradistion and surgery in operable They stat that in cases of axillary involvement in which irradiation is combissed with surgery

ment is women irramisation is commissed with an igner, the number of five-year cures is double that obtained in cases treated by surgery alone

# TRACHEA, LUEGS, AND PLEURA

Redblom, C. A. and van Hazel, W. The Results indom, C. A. and Van Hazzi, W. The Results of Extra pleural Thorse copiesty in the Treatment of Pulmonsty Tuberculosis. J. Thereca Sarg.

This article is a review of the results of thora cobjests since it persuas as accepted method of collapse therapy. The authors state that the concollapse therapy the anthors state that the com-parison of indupdual series of cases is difficult be-PERDISON OF INMITIVATIONS SETTINGS OF CRIMES IN THE THE THREE PROPERTY SETTINGS OF CRIMES IN THE PROPERTY SETTINGS OF CRIMES IN THE THREE PROPERTY SETTINGS OF THE PROPERTY cause certain nations such as variations in too type of cases, the operative technique, the after-care, or cases, the operative occupances are attended and the economic status of the patients may influ

ence ton remit

Of the 3 76 patients whose cases are reviewedincluding soo of the authors patients—over 35 per incusuing 200 us one authors patients—over 35 per cent were free from symptoms and bacilli and able t work from one to twelve years after operation, I have then one in twenty here said were able to
I per cent above of improvement and were able to 2 1 per cent showed impairmental and well show to do some work, and 33 per cent ded som after the so same was a sou 33 Per cent uses sens a set use operation or later from the tobercoloses or condi-

the paring to relation to the previous discuss The operative mortality which included all the operative mortality which includes all deaths occurring within eight a ceks after the operaconsum occurring within cague access after the opera-tion, ranged from 3 t so per cent and veraged

of per cent.

atany or the surgician whose cases are musician to series reviewed reported, much lose a mor in one series reviewed reported much over more that yeard higher percentage of cures in their more recent cases. The improvement was due to more recent cases the improvement was due to more infid observance of the indications, improvement in the operature of the indicators, improvement to the operature technique, and more careful post operature supervision. The chief causes of death operative community and more carrier per-operative supervision of the chief causes of desire vers shock, heart fail re, wound infections, mediwere manage, sensi just 16, would intercape, ment astinal inities and extension of the topographic today. nose causes or sature are suicin sess frequent today.

The results reported lackade those in cases, is

which extraolerary thorsecondary was done when washi extrajarurai moreospeasiy was oose when knowledge of the application of collapse therapy was some homed than I is today With increasing knowledge, the adoption of suitable operative normanic, and the performance of supplementary procedure, and the performance or supplementary operations when indicated, such more gratifying results are being obtained

Fischer A. M., and Abernathy T. J. Patrid Empress, with Spacial Reference to Analysisks
Streptococci. Arch. Int. Mad. 934, 54 53

The authors define putrid empleme as a picural the surners occurs period that the fool oder criment or varying terminency with non-cour They review the hierature on the bacteriology of

anaerobes, particularly anaerobic streptococci, found anacroscs, parocusary anacrous such constraint in purporal and peirle infections, rare abscusses and empressals. These organisms are considered to be definitely pathograic under certain conditions the deministry proceeding mass certain continues.
Four cases of patrid empyeme are reported. In

cour cases or journel employees are reported in all, analysis arreptococci were the dominating organizms, but in three of them other analysis organisms, but in tures of them other anaerobes were also present. The a thors report also to cases of pulmonary abscess and one case of bepatic paces in which similar organisms were demon paces in word amount organisms were unser-strated. In two cases Vincent's organisms were found, Bartierloopical studies showed that the months of organisms were variable. They decomassociated organisms were variable. They occuositely also that the anaerokic streptococci did not strated also that the ansertone surpressed on the all belong to the same group, two being of the will become in the same group, two peins of the viridans type, one harmolytic, and one son-tempo They usually grew with a foul odor Subrync. They manny great with a tout ook; cultures great anserologically but much more shortly caltures are anaerouscally but much more arrey as was previously noted by Prevot who also investigate who also investigate the previous process of the previous process. as was previously noted by Prevot 8 DD and investi-gated principally organisess obtained from cases of

innonery support cases the empleme developed as an use satures cases the employee descriptions of the intrapolimonary disease. Terms pulmonary suppuration. of the patients died.

# HEART AND PERICARDIUM

Back, C. S. Contrisions of the Heart J Am. M.

The author discusses non penetrating traumats of the heart. He states that, lying against the starges ine near the states that, typing against the married anierbody the heart is vulnerable to any studen enteracty too near; is vumeration ( as) substituted impact over the stermins and, butteresed against the minact over the secrimin and, outcrease spanse the occurs of the therapy extreme posterary it is very negative to compression forces applied to the chest, nerause to compression torces applied to the const. There can be hitle doubt that the heart is subjected t many injuries. Most of them probably produce

to functional disturbances and are not recognized Indeed, even injuries that produce functional day inneed, even injures that promote innerseas we turbances are probably not recognized in the great Victoria de la morta de la cardiac conmajority of cases

tunous, and the electrocardogram produced by torsous, and the sectrocarmogram processes by many octavity continuous may be similar to that of a

Note the heart receives a continuon t may repmyocardial materia

or the section of the section of the control of the Control of the section of non-personal section of the secti ture, fail without rupture, or recover beart are rarely fatal. The heart can tolerat an ment are raisely likel 1 ms ment can covered and common amount of treams. The ambier carried as commence amount of treams to amount carries beart was exposed and the myocardizes subjected neart was supposed and the myocarman supposed to continue injuries I twenty of the experimental to continue injuries. to continuous serse tolerated remarkably and Beck the continuous were tolerated remarkably was not concluded that recovery is the role rather than the exception, and that if does the occasi, it is caused by ventricular fibrillation, rupture, or myocardial fail-

ure following tachycardia

The mechanism by which non-penetrating wounds of the heart are produced are (1) a direct blow over the precordium producing a fracture of the sternum and ribs with penetration of the broken ends into the heart, (2) contusion or compression of the heart between the sternum anteriorly and the vertebrae posteriorly, (3) the application of indirect force such as sudden compression of the legs and abdomen, (4) laceration of the thoracic viscers such as may be sustained in a fall from a height, and (5) concussion of the heart. The literature reports also cases of vagus stimulation with stoppage of the heart.

The mechanism by which rupture of the heart takes place in non-penetrating forms of trauma includes (x) bursting, like that of a toy balloon in the hand, (2) breaking of the myocardium, which is of a friable nature, (3) contusion with subsequent softeming, and (4) increased intracardiac pressure such as is produced by compression applied to the legs and abdomen of individuals in whom the resistance of the heart to dilating forces is decreased.

The author reports three cases of contusion of the heart. The first was that of a man who, when he was four years of age, was kicked in the chest by a colt. The sternum and ribs were caved in. When the patient was examined by the author at the age of sixty-eight years, cardiac decompensation was found. Roentgenograms showed the transverse diameter of the heart to be markedly increased and the distance between the sternum and the vertebræ to be greatly reduced. Electrocardiograms showed auricular fibrillation and myocardial damage.

The second case was that of a man who ran into an armored truck while riding a motorcycle. Immediately after the accident he became dyspnœic and unable to he on his back because of severe pain in the chest, and for more than a month he was subject to attacks of dyspnœa and pain. The diagnosis of cardiac contusion was based on the facts that the patient was in excellent health and had never noted cardiac symptoms prior to the accident, circulatory collapse occurred immediately after the severe injury to the chest, and symptoms of cardiac asthma developed subsequently. As cardiac asthma developed subsequently of cardiac lessons, the author believes it may be produced by a contusive injury

The third case was that of a man forty-nine years of age who was thrown forward against the steering wheel of an automobile and died five days later of myocardual failure. Autopsy showed two contusions the size of a dime in the posterior wall of the right ventricle and a laceration of the myocardium be tween these areas.

Charles Baron, M.D.

#### MISCELLANEOUS

Glaeser, H The Treatment of Infundibular Thorax (Die Behandlung der Trichterbrust) 1934 Muenster 1 W., Dissertation.

All of the important facts regarding infundibular thorax are reviewed in this article. The clinical importance of infundibular thorax depends upon the displacement and constriction of the heart According to the author, the cardiac symptoms are due, not to a constitutional cardiac weakness, but primarily to the deformity. Only circulatory disturbances give an indication for operation. Other disturbances are rare even in pronounced cases. For disturbance of the labile state of balance developing in the course of time between the funnel protruding into the chest cavity and the heart there must be an additional constricting factor.

Purely conservative treatment (respiratory exercises, traction at the base of the funnel with strips of adhesive plaster, or suction with Bier's apparatus) may be considered only for young persons with yielding bones. Surgical treatment includes thoracolysis, resection of the funnel, and plastic procedures. Thoracolysis has always failed, and resection of the funnel had to be discontinued because

it was too hazardous

Hartleib was the first to think of excising the entire funnel after its exposure and replacing it in the defect reversed, with the convexity outward In another case the defect left by resection of the funnel was filled with bone from the tibia

The surgical treatment was simplified and improved by Sauerbruch. In two sittings he divided the sites of insertion of the fourth to the eighth ribs, which then had the tendency to project outward spontaneously.

Nissen elevated the sternum by means of a wire introduced behind it

(HACKEYBROCH) LOUIS NEUWELT, M D

Takino, M The Methods of Dissemination of Metastases in the Supraclavicular, Cervical, and Axiliary Lymph Nodes in Pulmonary Cancer, and Their Relation to the Lymph Vessels of the Lungs (Ueber die Verbreitungsmodi der Metastasen in den supraclavicularen bzw zervicalen und axiliaren Lymphdruesen bei Lungenkrebs und die Beziehung derselben zu den Lymphgefaessen der Lunge) Acta scholae med unit imp., Kioto, 1934, 17 211

The author made clinical and roentgenological examinations in sixteen cases of cancer of the lung and a histopathological examination in two of them He found that the localization of the metastases in the right or left supraclavicular, cervical, and axillary lymph nodes was closely related to the site of the tumor, and that the sequence of metastasis formation in these lymph nodes depended upon the growth of the tumor Finally, he established a definite law for the development of metastases from pulmonary tumors in the different lymph nodes. He found six methods of dissemination and various combinations

In the first and second methods of dissemination the tumor was in the right or left upper lobe and spread to the surface and apex of the lung. The metastases occurred, at least in the beginning, in the supraclavicular and cervical lymph nodes of the same side. Dullness was found in the chest

relatively early. The author believes that early dullness in the right or kelt suprachavicular and infraclavicular spaces, and hard, even though small enlarged nodes on the sam side of the sack are of

great clinical significance

In the third and fourth methods of discentination the tumor was near the fight or left blies and the threatment and the threatment of the fill be opposite approach carried and cervicia note. In the early stage there was no dilloses in the cates as the tumor was distar from the though wall. Although the utbor lad only one case of polimonary jumor in the right bling, he believes, lodging from the anatomy of the polimonary lymphatics, that the third method if dissemination in not necessarily nor.

I the fifth and sixth methods of dissemination the tumor fletted the right or left pleurs, coming pleurisy, and the metastases appeared quite often in one of the saillary lymph nodes of the same side. A turnly in cases of primary pleural tumors the metastase develoo first in the arillary nodes of the

mame alde

Combinations of these six methods of discrimination, such as the fourth with the sixth and the second

with the fourth, also occurred

The methods of spread of palpable lymph node metastases in cases of tumor in the pper lobes of the lung can be explained asstromedly by the pulmonary lymphatic system and the pressure mechanism of the tumor.

First and second methods. The supractavicular and cervical lymph nodes, respectively are connected natomosally with the tracheolymochal, per ill brockiel, and mediastical nodes on the same side. Therefore the cancer cells of the primary focus in the arithm of left more lobe reach the supractavicular.

and cervical nodes in the normal flow of the hamph atreum, provided the latter is not disturbed by presure of the termor on the lymphatic market provides

Third and fourth methods. If the tumor originates in or ware the right hilbs and exert pressure city spon the right dermal tracts, the lymph flows in the cancer crite from the right upper lose through the anastomosis between the inferior tracker-bronchial is just noted as the right apper tracker-bronchial is just noted into the left superchiveluse and cervical nodes respectively. If the tumor originates i or near the left hilbs, the conditions are exactly revenued

Fifth and sixth methods metastases devices as the axiliary solves in cases of polimosary transce only after involvement of the plears. Normally there is no connection better each the atiliary soldes and the lyraphatics of the whereal plears but there is connections with the ly amphatics of the parent is connections with the ly amphatics of the parent and airth seribod occurs through the development of lymphatics between the visceral and parietal

pleurs (adhesive pleurisy)
A cases of middle and lower lobe tunsors ere
observed. Uchikia has reported a case of tunor of
the lower lobe f the left lang in which a supra
claricular plaudular; a ell gappener first (Method

As no accurate reports on metastases from tumors of the middle and lo er lobes are t be found in the literature, the author has been notable to determine their roctes. I dissementation definitely. However be believes that they may be explained anatomically on the basis of the lymphatic system in the sume

s y as metastases of tumors of the upper lobe.

# SURGERY OF THE ABDOMEN

## GASTRO-INTESTINAL TRACT

Aird, I Perforation of Carcinoma of the Stomach into the General Peritoneal Cavity Bril J Surg, 1935, 22 545

Aird states that there is no clear clinical picture upon which a pre operative diagnosis of perforated carcinoma of the stomach can be based. Pre operative diagnosis is rendered difficult also by the relative infrequency of this catastrophe in even the widest surgical practice. After reporting a case of his own Aird reviews seven observed in the Royal Infirmary, Edinburgh, and seventy-one cases collected from the literature.

Aird's case was that of a sailor twenty-seven years old who, while out walking was seized with violent epigastric pain. After an hour the pain became generalized throughout the abdomen \omiting of yellow bile failed to relieve it. There was a past history of epigastric pains not consistently related to food taking which had been gradually becoming more severe.

At the time of the patient's admission to the hospital, six hours after the attack, the pain had eased and the vomiting had ceased The temperature was subnormal The pulse was 120 but of good quality Tenderness and rigidity were intense and generalized but most marked in the epigastrium. There was no palpable tumor or distention and no dullness in the flanks A diagnosis of perforated peptic ulcer was made. At operation in which the abdomen was opened by a right perimedian rectus displacing incision, the peritoneal cavity was found to contain gas and a serofibrinous exudate, and a perforation I in in diameter was discovered on the posterior wall of the stomach near the lesser curvature, 2 in rom the pylorus The edges of the opening were ragged, white, and crumbling The perforation had occurred through a saddle-shaped ulcer involving the lesser curvature and the greater girth of the stomach. In the lesser omentum there was a mass of hard glands The perforation was closed with great difficulty on account of the friability of the tissues Microscopic sections of the omental gland disclosed a highly cellular adenocarcinoma with no glandular arrangement whatever The immedi ate convalescence was uneventful, but on account of the metastases, a radical operation was not in-

Analysis of the seventy-one cases collected from the literature shows that an exact pre-operative diagnosis of perforated carcinoma is possible and likely only if the gastric tumor has been diagnosed previously. In two thirds of cases of perforated carcinoma of the stomach the condition runs a fulminant course with signs and symptoms closely re-

sembling those of perforated peptic ulcer In onethird, the perforation is more or less silent, pain and abdominal rigidity being slight or absent. In both of these groups the perforating tumor is nearly always of the ulcerating variety and is often situated on the lesser curvature near the pylorus In about so per cent, metastases are already present when the perforation occurs Primary cancer of the stomach tends to perforate atypically, the symptoms being either mild or gradual or death resulting in a few hours from septic peritoritis. The immediate operative mortality approaches 60 per cent Immediate gastrectomy has been successful in only seven cases The safest and most effective treatment appears to be simple closure of the perforation supplemented by gastro-enterostomy and if removal is possible, later gastrectomy Peritonitis may occur in cases of cancer of the stomach without actual perforation of that organ JOHN W NUZUM, M D

Friedenwald, J, and Feldman, M The Unstable or Irritable Duodenum Clinical Observations in 100 Cases J im M 4ss, 1934, 103 2007

During the last few years clinicians have begun to recognize an unstable or irritable duodenum in addition to the ulcerated duodenum. The former may be responsible for a bizarre syndrome. There still is much confusion in defining it

The cause may be unknown When there is no evidence of organic disease, a nervous reflex or allergy may be considered. In addition, there may be a mechanical etiological factor such as a congenital abnormality, adhesions, or compression of the duo denum. Especially important are the adhesive processes secondary to chronic cholecystitis, visceroptosis, or abdominal surgical procedures. Chemical causes are manifested by changes in the gastric secretion.

The symptoms may simulate those of duodenitis, duodenal ulcer, cholecystitis, appendicitis, or any other abdominal disease. On the other hand they may be quite atypical, the patient complaining only of an abnormal appetite, nausea, emesis, epigastric discomfort, and headache. Abdominal pain is usu ally absent. As a rule the diagnosis is based on a history of vague subjective neurotic symptoms such as headache, dizziness, insomnia, and exhaustion in a high-strung, neurasthenic, irritable, patient. Spasticity elsewhere in the gastro-intestinal tract, manifested by cardiospasm, pylorospasm, gastric spasm, or spastic colitis is common Roentgen evidence affords a far more conclusive basis for diagnosis The entire duodenum or any part of it may show dysfunction plus irritability. There may be (r) increased motility with frequent or infrequent emptying, (2) transient irregularities along the borders, (3) tran

sient space manifestations (4) tenderness and senditiveness over the doodsman, and (5) shearce of a definite ulcer hilling defect. Although modifity is markedly accelerated, the deedenal cap does not always empty fiself completely enough. This is

always copty itself completely enough. This is characteristic of the typical case. Therapy should be directed at the restoration of normal doubless from This is accomplished best by resultation of the diet, rest and improvement of the

condition of the nervous yearn

SANTER I FORMAGON, M.D.

Kanter J L. Regional (Terminal) fields. Its Rossigru Diagnosis. J Am 11 411 634, 01 90 6.

This stricle is prefiningly report based on air cores at repressible the surjectify experted. In four pathological care details a surjectify experted in four pathological care ministion may be foregoing to provide the pathological care ministion of the pathological care ministion of the pathological care ministion of the test former the ultimate diagnosis was non-specific ulterative grant locations of the term regional flexing. In the latter the operation was done prior to the introduction of the term regional flexing, but the findings were the same as those in the other cases as regards the presence of slees thickness, and ulteration and the absence of are growth, tuberculosis, another known specific fulnessmantform and tume-stricks and tume-stricks known specific fulnessmantform and tume-stricks and tume-stricks known specific fulnessmantform and tume-stricks and tume-stricks and tume-stricks are supported to the stricks are supported to

Pale and diarrhors occurred in all of the cases, fewer in five melmutition in four and a mass in three. The patients were males ranging in age from nutten to forty two years. Three of them were !

the early thirties

constant

Kantor states that reenigen examination of the small letestles has not received sufficient attention. He advises frequent careful observation of a progress send from the time the execut begans to fall satilthe time the Bean should remarkly be emoty.

In regional floats not only the sleam ber also the roles may show an abnormality. The myolvement of the recum is usually a speake insualestation, but in some cases the disease process may involve the coles by adhesion or firstals formation. Under the latter curamitances the deformity of the colon will be fixed.

The important charges in the slums are a contain to filling defert and frequent in distance of the hot proposed in the defect with stass. In three of the cases reviewed the conton of the sleam promate it the lesion seemed shooma! The straking fosters in the "string gar representing the actual before This is thus, incert shadow often irregular earlier of the strain of the strain

The string sign appearance must be differentiated from the streak like billing of spartic segments of the small intenine. In the latter the defect is inconstant, wider denser and smoother. The string sign is

Regional ficits must be differentiated also from a filled appendix and from tuberculoms, surcous, and applies of the terminal laws

The author concludes that although the string sign is not necessarily pathognormous of regional factle, this conclution should always be borne in mind when the string sign is found.

EARL & BARTEL M.D.

Gelli, R., and Rendandi, G. An Experimental Study of Transplantation of the Recercial Sphineter in Amsternois Between the Small Intestine and Colon (Stude spenescript of trelate delte Saters records nell systems in

treme colon) irch stal d clife 914 35 5 7 Aside from the extensive fleocofic resection for realignant disease, in which it is impossible to save the lieucolic applianter there is a series of conditions deverticulitie, chronic starts of the prestnal color. benien tumore) la which liercolle anastomosis is ad visable and it is important to preserve the spinacter The authors review the invegination methods of Beocolic mastomoris, the purpose of which is to teconstruct a valvalar apparatus and thus prevent re-flux. The experimental technique recently devised by Il clas has undoubtedly given good results, ladged feactionally rotationologically and anatomically but may not be equally sucressful in mas With regard to I procedures of this kind the doubt persists as to whether they would be efficient in every case and whether the valvalar function would be per manent

The ideal procedure in the type of case ader deconsion would be t keep the end loop of the fleas with its aphincter lotact and transplant it into the colon at the desired site. The first experiments to solve the problem were undertaken by Cancil in to 7 As Capocal' technique is attractive because of its comparative almobitity Galb and Bendanti repeated and extended Cancel experiments. At the same time they made a study of the autumy and inaction of the spinacter and its appearance in dif lerent physiological states. They review the hiera ture on the function of the sphearter from the circuit cal eneception that the valve is passive to the new theory that it is an active aphancter, physiological entity with a regulating function. They state how ever that its morphology, function, and refer to teclination with the rest of the intestine are not yet completely actiful

In ax dogs the authors did an oblique termontured transplantation of the flowode sphinter love the successing colon at various diseases from the occurs. The superaises of the value as studied teening-indepently in different conditions of the stream's thought and offer transplantations of the stream's thought and offer transplantations of the stream's thought and the stream's and contractions of the stream's and reserve the stream's after the administration of an outers ceream's

The functional state of the spinorter at 75 vs ried according to the filling of the stamach. When the stomach was sceretting actively the Bescoke

sphincter could not be forced, while in the fasting state it could always be made to yield to the pressure of an enema. These contrasting results are the best proof that the transplanted sphincter is capable of maintaining its structure and function. Apparently these will continue indefinitely if the anatomical conditions on which they depend are preserved. While in some cases the remaining colon was increased in size and its walls were hypertrophied, the end of the ileum showed practically no change.

The authors conclude that the ileocolic sphincter is intimately connected reflexly with other parts of the gastro intestinal tract and its action is determined by a reflex of gastric origin. In the fasting condition the sphincter is incaprible of opposing a colo ileal reflux, while during digestion it is perfectly closed. In making a roentgenological diagnosis of insufficiency of the sphincter it must be remembered that there may be a physiological retrograde filling of the ileum without a lesion of the sphincter. Transplantation of the sphincter into the colon by Caucci's method is technically easy, and the transplanted sphincter will probably retain its function indefinitely.

The article is illustrated and is followed by a bib liography M E Morse, M D

Tassi, D The Value of a Negative Exploratory
Puncture in Suppurative Appendicitis (Valore
della puntura esplorativa ad esito negativo nelle
appendiciti suppurative) Policlin, Rome, 1934,
41 sez prat. 2005

The author reports in detail seven cases of acute suppurative appendicitis and periappendiceal abscess in which a negative exploratory paracentesis was followed immediately by reduction of the fever, the ædema in the right lower quadrant of the abdomen, the pain, and the leucocytosis and after a few hours by rapid disappearance of the inflammatory abdominal tumor. At operation performed later, the previous presence of an inflammatory process of the appendix was proved

Tassi attributes the favorable effect of the exploratory puncture to a humoral modification—an "autohæmo-autosero-autovaccination" — following the small hæmorrhage produced by the passage of

the needle through the abdominal wall

A. Louis Rosi, M D

Costa, G Postoperative Appendiceal Fistulæ (Contributo allo studio delle fistole entero-cutanee post-operative appendictiche) Clin chir; 1934, 10 1115

The author reports five cases of postoperative appendiceal fistula. The first case was one of tuberculous typhlo appendicitis in which chronic tuberculosis was complicated by acute inflammation of the appendix, the second, one of suppurative appendicitis following a primary carcinoma of the appendix, the third, one of true appendicitis in which operation was performed on the twenty-fifth day, in the period of suppuration, the fourth, one of ordi-

nary acute appendicitis with an infiltration not yet absorbed, in which operation was performed on the sixty-second day after the beginning of the disease, and the fifth, one of true acute appendicitis in which operation was performed on the third day of the attack. The stercoraceous fistulæ in these cases developed at various periods after operation

On the basis of these cases and a review of the literature Costa discusses postoperative appendiceal fistule in general and divides them into two groups—those due to a pathological condition such as cancer or tuberculosis and those resulting from defects in the technique of operation. He states that the higher the perforation the greater the danger. The treatment of such fistular is surgical. The operation may consist of lateral enterorrhaphy, enterectomy, simple entero-anastomosis, or entero anastomosis followed by enterectomy. The choice of procedure must be determined by the requirements of the particular case.

Audrey Goss Morgan, M.D.

# Mitchell, G A G The Innervation of the Distal Colon Edinburgh M J, 1935, 42 11

Our knowledge of the autonomic nervous system is still very incomplete. Surgical intervention has far outstripped anatomical and physiological knowledge. As a result, operations based on false conceptions have done much to discredit legitimate surgery of the autonomic nervous system. The practical advantage and importance of an exact knowledge of the anatomy of the autonomic nerves are obvious. This discussion of the innervation of the distal colon is based on dissections of fifteen stillborn babies.

The distal colon is plentifully supplied with nerves arising from several sources and pursuing different pathways. Lying between the origins of the mes enteric arteries, on the anterior and anterolateral aspect of the aorta, are delicate bundles of nerve fibers, from four to twelve in number, which are disposed in the shape of a closed fan with the narrower end upward or in the form of two or three discrete bundles. These are called the intermesenteric nerves

Above, the intermesenteric nerves are continuous with the cœliac plexus and communicate with the aorticorenal ganglia Below, some of their fibers form a plexus around the origin of the inferior mesentenc artery and others pass directly downward into the superior hypogastric plexus Between, they are united by several fine branches, but a true plexus is formed only in a few instances where the fibers interlace at the lower ends Opposite the hilum of each kidney these nerves give off from two to six slender branches which pass to the aorticorenal gangha or directly to the renal plexuses. In most cases an additional one or two delicate branches pass upward and outward from the outer and lower parts of the intermesenteric nerve group to take part in the formation of the renal plexuses At their lower ends these nerves communicate with the inferior mesenteric plexus and appear to be more constant on the right side.

The intermementeric nerves are folned laterally on both sides by three or four rami from the upper half of the lumbar sympathetic chain. The upper ramus (or rami) joins the intermesenteric nerves chrectly The lower two not uncommonly fuse before they join the termination of the intermesenteric nerves or the beglaning of the superior hypogastric pierus. These rami are called the lumbar splanchule nerves The plexus which surrounds the interior mesenteric artery is formed by branches from the intermesenteric and lumbar splanchnic nerves. It is gener ally agreed that the main sympathetic supply of the distal colon passes through the laferior mesenteric plexus and its branches. By some it is maintained that parasy emathetic fibers also reach the colon by this route. The sympathetic fibers pass through the fumber splanchaic acrees and by way of the intermesenteric perves from the cyclise plexus

The laterior hypogratric or pelvic pleases re altuated on each side of the rectum or bladder. They re composed of an intrical meshwork of nerve fibers embedded in firm connective tissue

In summarizing the author states that the distal colon receives its perve supply from t sources (1) the inferior mesenteric plexus, and ( ) the hypographic perves and alexanes. The former surply is maini and possibly entirely sympathetic in nature I the latter there may be both sym nathetic od parasympathetic fibera, but para sympathetic elements predominate

CU AS F Frant

Hunt, F. Cancer of the Lower Orion (Sigmoid) and Rectors New I gland J Med 934. The treatment of cancer of the signaid and rectum has become more promising with suprovement in the diagnous and in the safety and efficiency of the

operath technique According 1 Jones cent of all executomat occur in the intestinal tract, to per cent of intestinal careinomata occur in the rectum, and so per cent of rectal executomata ma-

be correctly disposed

Hunt tates that a new point of view must be developed in the mind of both laymen and playse safet of surgery ad the ciam to the relati carabilit of cancer of the sigmoid and rect m. It is lamentable that a large proportion of persona with capeer of the sigmoid and rect in re first seen by the surgeon too lat for operation. In the pubbe estitutions of America from three fourths fon hithe of natural with cancer of the rect in re moperable i the time of thei admission and the remainder in on the borderline of operability I per t cases however the mesdence of operabil

ity ranges from a t 60 per cent
In cases n which radical operation is possible and is performed by expendenced surgeons the mor tality ha been reduced remarkably. Codley report ed a sense of fort seven cases in which there ere only two deaths ad the Laber Chase series of fort & cases ith ro deaths Moreover the inchience of ave- ext cures seems t be higher in cases treated by radical operation than in those

treated by leaser procedures.

If the incidence morbidity and mortality of cancer of the colon are to be generally lowered in keeping with the demonstrated possibilities, the Improvement must be brought about by education. The laity and physicians must be taught to recognize the importance of initial ramtoms rack as charge in bowel habit pain, and bleeding practitioners most be induced to apply falthfully all the dut nostic measures at their command, includes abdomizal palpation and digital proctoscoric. chemical, microscopic, and rocuterpological erars inations and surgrous must master the deficult and often teclious technique of preparation, opera tion, and after-care

Arsong the difficulties confronting the sateron who wishes t perform a suitable radical operation is the almost universal hortor of an abdominal ages on the part of physicians as well as laymen. The attitude does not seem justified by the experience of persons with properly made colostomy that is reasonably well cared for M my Bres have been sacrificed and much misery has been endured

because of the refusal to submit to colutour

It is quit generally held that in lesions of the left colon a one stage resection. It immediate closure usaf because of the torage function, the abundant growth of battern and the teadency toward obstruction in this part of the colum. Therefore in the majority of cases of sich lesions the prehiminary mecostomy of a athor performs permanent colostom). The use of the Mikufica procedure lessens the danger of shock and a olds that of intraperatoneal leakage but may fatroface dangers of its own besides greatly extending the period of hospitalization. After the performance of executions for its detoxify ng action, the surgeon may still perform the Mikuhez operation if he doubts his builty to carry out a resection in contenuity with salety. The importance of spinal amenthems and blood transfusion is discussed

The thor report eighteen cases is while a radical operation wa performed according to the pemeiples outlined in the period from 1913 to 1935 The operati a mortality was 17 per cent. Inc (15 per cent) of the patient died of recurrence. One could not be traced but is known t ha been live from recurrence year after the operation fully per cent of the patient re ill by and free from recorrector u . Marries M.D.

#### LIVER, GALL BLADDER, PARCEESS, AND SPLEEN

Leneration: G., Bertrand, I. and Patel, J. Con-siderations on Rollinzy Federicalated Advances of the Liver. Case Report. (Con Virtuality of Palfanes optimes Policial del force. preyer due observation personel.) Press will Tx. 914

Solitary encursaribed adenomata occurring in the Brer in the becare of hepatiti are relatively rare They are usually found at operation or autopsy Of the cases reported, the tumor was diagnosed clim-

cally in only two

The case reported by the author was that of a woman twenty-two years of age who complained of intermittent abdominal pain and a sense of heaviness in the epigastrium which had begun two years previously and had been followed by the appearance of an abdominal tumor

Physical examination revealed a painless, smooth, rounded mass, the size of the head of a newborn infant, which extended below the umbilicus and seemed to be attached to the liver. On roentgenographic examination the attachment to the liver appeared to be confirmed and the diagnosis rested between adenoma and hydatid cyst. The reactions of Weinberg and Casoni being negative, the final

diagnosis was adenoma of the liver

Operation disclosed a nearly black tumor, the size of the head of a newborn infant, which was attached to the anterior border of the right lobe of the liver by a pedicle from 9 to 10 cm in diameter. On the surface of the neoplasm, which was relatively smooth, were numerous tortuous dilated veins. The liver was free from other nodules. The tumor was resected by a wedge-shaped incision and the defect closed by U sutures and covered with omentum Uneventiul recovery resulted.

Microscopic examination of the tumor revealed in some areas a cord-like arrangement of epithelial cells closely resembling normal liver. Between the cords were endothelium-lined sinusoids. In other areas the epithelial cells formed acini containing a minute amount of fluid. At no point were there cysts. The stroma consisted of rather dense thick bands dividing the tumor into lobules.

In discussing the treatment the authors emphasize

the difficulty of obtaining hæmostasis

ALBERT F DE GROAT, M D

Baroni, B Studies and Researches on Intramural and Interstitial Calculi of the Gali Bladder (Studie ricerche sulla calcolosi "intramurale" e sulla calcolosi "interstiziale" della cistifellea) Arch ital di chir, 1934, 38 273

The author presents a fairly complete review of the literature on intramural and interstitial calculi of the gall bladder. Such calculi are relatively uncommon. Early investigators were of the opinion that intramural calculi were ordinary small gall-bladder calculi which had become included in the wall of the gall bladder through lesions in the mucosa. Others believed that they were formed within the wall of the gall bladder and regarded the so called glands in the gall-bladder wall described by Luschka as of importance in their formation.

Baroni reports three cases of intramural calculi of the gall bladder. The history in these cases was the same as that in most cases of gall bladder disease. In two cases roentgen studies showed no filling, and in one case, only faint evidence of filling

In the first case the intramural calculi were not diagnosed at operation, but on the basis of the study of this case the pathological anatomy was recognized readily at operation in the second and third cases Macroscopic study of the specimens showed an increase in the size of the gall bladder in two cases and a decrease in one case The wall of the gall bladder cut with some difficulty Small hard masses could be seen and felt within it was pink and presented nodular yellow areas, in the centers of which the calculi were visible calculi were located irregularly in the peritoneal as well as the aperitoneal portions of the gall bladder and were at various depths from the surface Most of them were in the subserosa and muscularis, but some were in the submucosa. In a few instances the surface of a calculus was exposed in the lumen of the gall bladder The calculi varied in number in the three cases They were usually friable and often of a deep chestnut color with at times streaks of dirty yellow They varied in size from that of a pinhead to about 1 cm in diameter Grossly, the mucosa was hypertrophic and presented round, scar-like areas up to 5 mm in diameter with indefinite margins, which were often a dark green but sometimes yellow in the center, elevated above the level of the mucosa, and either bare of mucosa or covered by a tense smooth mucosa These elevated areas corresponded to the areas containing the calculi

Histological study yielded findings which tended to be different in the three specimens and were not easily correlated In the first specimen there was a thickened mucosa much like that of strawberry gall bladder with hypertrophy of the tunica muscularis and hyperplasia of the connective tissue in the submucosa and subserosa Tubular invaginations of the mucosa (which may be called Luschka canals) were present. These sometimes extended to the subserosa and often contained calculi of various dimensions Immediately surrounding the calculi the mucous membrane was much like that in the Perivascular infiltration was noted gall bladder especially in the areas surrounding the canals There was some histocytic and fibroblastic proliferation, and some lipoid degeneration of the cells In certain areas the stones were invested by connective tissue without intervening epithelium

In the second case the findings were similar except that many of the spaces were not related to the Luschka canals but were rather isolated new cavities. The tissues surrounding these cavities were composed chiefly of epithelioid cells and were involved by some phase of a degenerative process or by lipoid infiltration, containing granules of bilirubin, calcium, cholesterin and its esters, and a yellow pigment. These substances fused to form small calculi which in turn sometimes fused.

In the third case the mucosa was hypertrophic but without villi and was poor in Luschka canals. The submucosa was the site of foci of cellular infiltration and connective tissue hyperplasia. There was some trophy of the smooth muscle. The spaces noted were much the same as those in the second

case, not Limchka canala

On the basis of these findings the author ttempts to explain the formation of such calcul. He behaves that in the beginning there are present in the submucoes and subserous connective theme cells with morphological characteristics between those of the fibroblast and enithelioid cell but more rounded. presenting a poorly tained nucleus and a granular cytoplasm, and containing some doubly refractile bodies. These cells soon disintegrate and become infiltrated with fat In this stage small granules of bilimbin and cholesterin esters appear together Soon the cell desuppears entirely leaving only the détritus f cholesterin, fata, billrubin, and calcium. Enitheliosd cells surround this material much as they would surround a foreign body and form foreign body giant cells. These cells eventually become involved in the degenerative process and their détritus forms a covering for the original nidus. The process is then repeated varying num-ber of times. This precipitation seems t occur periodically as similar phases of it are often noted in different parts of the same specimen. Such a process may take place anywhere within the wall of the gall bladder quite independently of an epithelial coating and a thout communicating with the himen of the sall bladder

The indications are that these intracural calculators at the edge of the control of the calculators and the other truly intensitial following the process described or some similar process. The causes of aliculi formed in the canals are probably similar to those of gail atones in general, whereas the calcul formed intensitially are related promarily to degeneration and calculations without infammation generation and calculations without infammation characteristic the change in street bears and the calculations are considered as the characteristic of the change in street bears with the characteristic of the change in street bears with the characteristic of the change in street bears with the characteristic of the change in street bears with the characteristic of the change in street bears with the characteristic of the change in street bears with the characteristic of the change in the characteristic of the

A fairly complet teriew of the literature and a complete bibliography ar presented.

A Lorin Rose, M D.

Webb-Johnson, A. E., and Muir E. G : Cysts in the Region of the Functors: With Yotes of Case. Brd J Sury 214, 24

Cyclic tentors in the region of the practum are mong the least combon of all oblomusal cysts. A woman fifty-two years of go was operated upon for cyst. It in diameter which lay behind the pracross and was attached to the spicers by recover thannes. The wall of the cyst was formed namely of librors thoses, but considered deather marks of librors thoses, but considered deather marks missed. The presents of muscle fibers in the will had the expite of the cyst suggested a fertitosators ofthin. The process of muscle fibers in the will all the expite of the cyst suggested a fertitosators ofthin.

# GYNECOLOGY

# UTERUS

Lukacs, M The Action of Thymophysin—Extract of Thymus and Hypophysis—on the Contractions of the Uterus Its Use in Obstetrical Therapeutics (L'azione dell'estratto biglandolare associato del timo e ipofisi "thymophysin" sulle contrazioni uterine Suo uso nella pratica terapeutica ostetrica) Riv stal di ginec, 1934, 17 305

The author states that thymophysin, a combination of extract of the thymus and extract of the posterior lobe of the hypophysis, was first reported as a new remedy by Temesváry at the Gynecological Congress held in Vienna in 1925. Temesváry's report was a sequel to the reports of other investigators who demonstrated indications and contraindications for the use of pituitrin and discovered that extract of the thymus is capable of increasing the contractions and the muscular tone of the uterus

To prepare thymophysin, Lukacs used commercial thymus extract as well as his own extract. In a series of experiments he found that when extract of the thymus gland was used with an extract of the posterior lobe of the hypophysis it prolonged the

effect of the hypophyseal extract

In obstetrical practice Lukacs has used thymophysin to increase the pains in primary and secondary inertia, in the period of dilatation from 2 cm to complete dilatation, in the period of expulsion, in the cases of elderly primipara and multipara with an intact or ruptured bag of waters, in premature and early rupture of the membranes, in marginal and lateral placenta prævia, and in normal labors in which there were fetal indications for its use. He has had no opportunity to confirm the results obtained with it by others in polyhydramnios, twin births, rigidity of the portio, hypoplastic uterus, or deformity of the pelvis of the first grade.

He regards the use of thymophysin as contraindicated by marked deformity of the pelvis, hydrocephalus, fetal macrosomia, shoulder presentation, spastic and tetanic contractions, threatened rupture of the uterus, grave nephritis, especially that associated with hypertension, headache, and visual disturbances, decompensated cardiopathy, diffuse

arteriosclerosis, and myocarditis

The thymophysin is injected intramuscularly (into the gluteus muscle), not by vein. The syringe must be free from alcohol as alcohol diminishes the

action of the thymophysin

To induce premature labor or hasten protracted labor the thymophysin was given sometimes in doses of o 2 c.cm repeated at intervals of twenty-five or thirty minutes after the previous administration of castor oil or an enema and sometimes in doses of o 5 c cm. It was found that the uterus

reacted sooner and more positively to doses of o 5 c cm

In primary or secondary inertia in the period of dilatation, i i c cm was generally given and repeated, if necessary, after an hour. The uterus began to contract after from three to ten minutes. The contractions lasted for from thirty-five to forty-five seconds and always showed a physiological rhythm, being repeated every two or three minutes. They continued to occur to the end of labor

The value of the extract is apparent especially in cases of premature and early rupture of the membranes in which there is great danger of infection of the mother and danger of asphyria and death of

the child necessitates rapid delivery

After reporting eight illustrative cases the author draws the following conclusions

The action of thymophysin on the uterine musculature is rapid and certain, provoking intense contractions which are always within physiological limits and continue for many hours

2 Thymophysin is specific for uterine inertia in

the period of dilatation

3 A single dose should not exceed 1 c.cm If necessary this dose may be repeated after an hour

4 The injection should be intramuscular (glu

teus, thigh)

5 Thymophysin should not be given during

uterine fatigue

6 The sooner its administration after sensitization of the uterus the surer its effect. It acts only on a uterus already sensitized, that is, after the pains of labor have already begun, or on a uterus that has been sensitized by small successive doses of thymophysin

7 Labors influenced by thymophysin are characterized in general by a rapid course not only during the second stage but also during expulsion of the

placenta, and by a normal loss of blood

8 Thymophysin never causes tetaniform con tractions, and has no direct action on the blood pressure

9 It may prove of great aid in operative interventions, especially the use of forceps

CLARA RAVEN

Ahltorp, G On Spontaneous Rupture of the Myoma Capsule Acta obst et gynec Scand, 1934, 14 368

The author reviews the seven cases of spontaneous rupture of a myoma capsule which he was able to find in the literature and reports a case of his own. The latter was the case of a woman forty-three years old who had a solitary myoma the size of a man's head A sudden, moderately painful enlargement of the abdomen occurred At operation two weeks

later a part of the reputes as large as two facts was found extruded through repture in the capsule and adherent to the transverse mesonsion.

The cases reported 1 the biterature show that rupture of the expend of a propose may result from disturisances in the neutrition of the appose accompanied by rapid growth of the tusors pressure accrossis in the capsule and referction of the eisseldity of the expender such maintenance of the contractile power of the uterpus.

Hinselmann, II.1 Ten Years of Colposcopic Ding noois of Carcinoma (Zaba Jaku Carcaco-Durg noss and dess Kalposkop). Als. B. Gaucht. 934, 05

The colposcope was constructed and introduced into the technique of expecularical diagnosis ten years are While it was originally intended for the detection of cardinoms of the portso not detectable ith the naked eye, I has proved of value also in the study of advanced carcinoms of the portle Even when the diagnosis of advanced carringons has been satisfactorily established, the colooscope permits a considerably more exact and sure determination of the limits of the twoor than is possible ith the It show which parts is already in maked or volved in the carcinomatous growth and which are still free. This determination is of great value cape. chally in the choice of the sate for bloomy. In this manner the comoscope prevents an appertain or possibly account or this recover of the bloosy specimen from the rong pla a It show lso dependably ad exactly the extension of the carcinomatous process on the earlace, thus prevent by the surgeon from making the line of extensu in the carcinomatous area instead of in braithy timese I the early diagnosis of curcinoms the coincidence has fulfilled anticomations in a different manner than

was expected at the time at as constructed. The ritual changes of circomon are not, as one might become at the contract changes on a small scale. In general, inceptest carcinoson is not reast listed as a small future or tile. The contraction is as the form of the contraction of

In order to understand the true form of incipient carcinoma it as necessary to go back and start commeally for the changes representing the must example tarcaporage the portio twas found advisable e make up a new nomenclature and classification Ithough some of the cases the fractings corresponded t the microscopic changes that had here-tofore been considered the ugas of incipates currinorms. For practical reasons use of the terms. preconcerous should be voided Moreover in wider become new macroscopic conceptions, 1 is not 1 better not tome the term beginning carcinoms Perhaps in the luture it will be found necessary to enlarge the classification now proposed. For astance to designate as ac a the type now known as

ce Opporphasis of atypical keratonizing optiodina involving the atinous quantal when the hyperplastic epithelium is limited to the exerctory densite of these plands, and as a p p when the landss of the phosis has become involved, designating as Type 5 that in which the hyperplastic stypical cylibelium is enitedly superficiel.

For the correct performance of colposcopy to requirements must be met. That, a complete caboecopic examination must be made of every patient When this is replected the practitioner denrives himself of the advantages of colposcopy. It cannot be said that a chulc performs colposcopy if it does not Indist that this besic rale be followed. Any deviation from this rule means that the incipient stages of carcinoses of the portio are not always discovered. The second recolvement is that there he subsequent control by means of microscopic examination, particularly when the carcinoms has not yet alcerated. If the colposcopic findings are not followed by bistscorrect understanding of the locical studies pathological changes on the surface of the portio is general and in the early stages of carcinoms in our tecuber is temporarile

(SCHILLER) FOR W BRENNER, M.D.

Kinfses, E., and Marratil, E. Sertome of the Uteres and Vagine (Urber Sertone des Uteres and der Vagine) Zentrall f Gyanek 1931,p 2176

The athon made statistical and of the sercons material of the Fers Unsectoing (Circle of the University of Vienna covering the period front of the angle of the 135 for the period front upon derring that period, accross a six social as a construction of the period, accross a six social as a construction of the period, accross a six social as a construction of the period, accross as a six social as of the 135 const period, the tensor as in the corpor in 86 1 the current m<sub>c</sub> spar and in the vagina in 7° whereas of the 44 cases of across as the tensor was in the corporation of its the current in 6, and to the construction of the corporation of the current was a strong of the corporation of the corporation was a success of the corporation of the corporation of the current corporation of the corporati

terms sarcome Sarcomate of the corpus sten are divided but sarromate of the all and serveness of the stace membrane Of 30 properties of the wall of the nteres, 5 are excrements arming in myomats an indication of the tendency of toyomata t undergo sarconatous degeneration. The symptoms of sar comate in misme are tadestragenshable from the symptoms of myours. The failure of cornigen castration for treatment f to ome may be so important finding. The ages of the patients in this group ranged from twenty-siz to fifty five Josep. sheroes diffuse sarconata of the wall and of the arecous membrane were found only is once over forty-five years. A familial tendency toward ma biguest tumor formation could be determined in only lestance In Course, strongenta ere feered

in purely submucous myomata Once tuberculosis was found combined with sarcoma The mortality in this group was 16 per cent Twenty one of the patients are still living Thirteen have survived for five years All were treated surgically

On histological examination the most common findings were spindle celled sarcoma (7 cases) and

my ocellular sarcoma (5 cases)

Even in cases of diffuse sarcoma of the wall of the uterus and sarcoma of the mucous membrane there was nothing characteristic in the history. The prognosis in this group was definitely less favorable, only 2 of the 7 patients surviving for one year. Some of the patients were treated by operation and some by irradiation.

The symptoms of sarcoma of the cervix were similar to those of carcinoma of the cervix. In one case the former condition was thought to be a cervical carcinoma and was treated by radical vaginal operation. Of the 5 cases, 2 were operated upon and 3 were treated by irradiation. The 2 patients who were subjected to operation remained cured for four and eight years, respectively, and 2 of the 3 who were treated by irradiation survived for more than five years after the treatment.

Both of the vaginal sarcomata were soon fatal In all cases in which autopsy was performed wide

spread metastases were found

Most cases of diffuse sarcoma of the uterine wall and uterine mucous membrane come for treatment at a relatively advanced stage. Consequently, the prognosis is more unfavorable. In the cases reviewed no permanent cures were obtained

Of the cases of sarcoma of the cervix, a permanent cure was obtained in 3. One of the patients treated for this condition was still alive after more than three years (FROMMOLT) JACOB E KLEIN, M D

### ADNEXAL AND PERIUTERINE CONDITIONS

Wallart, J The Rete and the Segmentary Arrangement of the Ovary (Le rete et la disposition segmentaire de lovaire) Gynée et obst, 1934, 30 517

The rete ovari, an epithelial formation sometimes found in the hilus of the ovary, has received little attention from investigators within recent times. The author, who has made extensive investigations of this structure in human beings as well as in animals, is of the opinion that it may have some

physiological significance

To demonstrate the rete, which varies consider ably in appearance at different stages of sexual maturity and under pathological conditions, serial sections of ovaries are necessary. The rete is found within the longitudinal axis of the hilus. It consists of groups of epithelial tubes and strands. In the fetus and the newborn infant and during the first years of life these epithelial ramifications usually do not possess any distinct lumen, although exceptionally they present minute spherical or oblong cysts. At the time of puberty the epithelial cells

change in appearance and the tubes show distinct lumina although their general arrangement and anal direction remain unchanged. The epithelial cells, which are sometimes cuboidal and sometimes cylindrical, have larger rounded or oval nuclei containing grains or filaments of chromatin and one or two nucleols. The cytoplasm is granular, foamy, During pregnancy and in certain pathological states (uterine fibroids) the rete in creases greatly in size, its tubules being filled with secretion which distends their larger lumina. The secretion stains with mucicarmine Occasionally the epithelium, which secretes mucus, shows papil lary proliferations which occasionally invade the tubal lumina, producing a pseudo glomerular appearance The blood supply is very rich, especially when the proliferation is most active

Of especial interest in the rete is its innervation. The nerve supply of the ovary is arranged in three large horizontal plexuses or layers extending to the level of the cortex and sending out ascending vertical branches. The first large plexus leaving the hilus provides the nerve bundles which surround each tubule of the rete and form a secondary submucous plexus. These are divided by further extensions to the epithelium of the tubules to form a sub

epithelial plexus

The rete communicates with the epoophoron at the cranial pole of the ovary. The author believes that it is derived from the wolfnan body. It is the homologue of the rete testis in the male. Because of its rich nerve supply, Wallart believes it represents something more than a mere embryonic rest.

The wolffian body, which plays an important directive rôle in the organization of the gonad, is a segmented organ, various parts of which are responsible for different ovarian structures The author's researches demonstrate a definite segmental arrangement of the ovary which is determined by the rete groupings as well as by the corresponding nerves Histological examinations frequently show this segmentation when certain portions of sections are seen to be perfectly normal whereas adjacent areas present well defined sclerosis demarcated by the anatomical segments This indicates that there is also a functional relationship between the rete and the nerves The rete apparently exercises a trophic rôle in the economy of the ovary and probably also in that of the uterus. The author advances the hypothesis that the rete is one of the receptors or transformers of the "commands of the hypophysis upon the genital apparatus"

Wallart does not agree with those who claim that the rete and the wolffian body have no functions except those of excretory organs during embryonic life. On the basis of the recently acquired knowledge that other organs which lose their excretory ducts during embryonic life play important rôles in the post-embryonic period—the hypophysis, for example—he believes that the rete will eventually

be proved a structure of great importance

Maura, M. A Contribution to the Study of Ectopia and Inguland Harsis of the Oracy Two Cases of Conjential Ectopia (Conjent of Conjential Ectopia at the Labium Majora (Conjent of Conjential della crispas a dell'erna Inguisal del oraco, A proposito di cin cas di ectopa conjential ordiversio della trencia nel grando lebbro). Anti di ajust giant 314.4 7 J

The a ther emphasizes that although berris and ectops of the owny are often contend, there are distinct differences between them. The predisposing course of ownich berris are persistence of Nack' cased, the presence of an ingribal sac, mousest size of the founce or casals of the abdominal walls, conjectually long ingenents, adhesing of the ownir to berniated mesenticy or instraidal loops, and repeated increases of intra-abdominal pressure. Deforming the cases of the reproductive organs may or m

Ectocals of the overy is caused by a fetal anomaly of the scrital tract, a developmental abnormality of the muellerian ducts, or generally defective development of the internal genitalia. The descent of the overy is stopped normally by firstless of the senitoinguinal (round) ligament in the utenne born Hos ever II the beament extends to the base of the labour matos and if Nack canal persists, the senitoinsulnal beament may exert traction on the overy and pull t into the labium. The brament then atrophies and the overy romains in the depths of Nock diverticalum, the upper part of which becomes partially or wholly obliterated I short, the normal obstacle to descent being absent because of defective genital development, the overy passes through the inguinal canal by the same mechanism as the torticle. Physiologically interpreted, ovarian ectopia is due to lack of the normal stimulus (posably hormome) to the completely feminine genital development

It is impossible to may how many case if two ectops of the orary into the labana have been reported, but in general all sumple congential oranasherose accompaned by gential bonahes should be considered as ingunal ectops of the overy. These are not extressed years. The important enteria an though this is not mentioned the overy of the though this is not mentioned. The most formore prestal defacts are absence and embry one developgential defacts are absence and embry one developement of the item, and the nort most common, much becomes a formation of the control of the most formation of the control of the control, is made hermaphrodition and unicornate and biocensis ultrus.

In connection a the review of the literature Maure discusses the pathology differential diagnosa, complications, and treatment

Both of the patients whose cases are reported by the author were forty two years old. One of them had had six, and the other two, normal pregnancies. The first patient had had a painful, irreducible settling in the left lablum for eight vean. No series admitted to the hospital for as cute attack associated with an increase of the effing, servers pelvic patin, sauses, and obstipation which begin three patin, sauses, and obstipation which begin three patin, sauses, and obstipation which begin three patin and the patients of the

The second patient was considered! have hed an inguinal hernis since childhood and was admitted to the hospital during as cute stack similar to that of the first patient. The sac contained orientum is admitted to the address, and a structure suggesting the further than the further than the first patient.

The article is illustrated and is followed by bibliography M E Mostr. M D

Singround, H.: The Resistance of the Overy to Goradotropic Hormouse (Resistent des Overses gress grandotrope Hormone) Zeatrallé f Gyaert 034, P. 24, 3

The author investigated the resistance of the proerative glands t the gonzdotropic hormones by studies of women and experiments on admits. The resistance is shown by graded scenariveness of the follide t gonedotropec hormones and by the action f the sexual hormones formed in the mature forheles and the corners butes woom the endocrine typtens. Therefore it is not necessary to draw spon the new formation of follicies in the screetly maters overy in animals to explain the resistance against gonaciotropic bornoons. The potency of the gonadetropic hormones depends upon the state of maturity of the follicles. Primordial follicles of infantie ovenes do not react t goundotropic hormones Pollicles of poverule overnoe which already show tendency to form followlar fluid react to these hor mones, and the more mature they are the more rapid and more physiological is their reaction. The primary follocies in the ovaries of mature amount are also invulnerable t the infrance of gosedotropst bortnones uder physiological as well as pathological conditions. Of the follows which come under the same hormonal influences simultaneously in the menetruating organism, the most muture resct the most quickly and most strongly to the hierated impulses of the hypophysis, and through their hor monel action upon the endocrine system (especially the hypophysis) prevent, for the duration of their function, the maturation of the next groups of follicing.

This protective mechanism of the follicles show not only that the primordul follicle is measures to guestdorepic hormones, but also that hormonal stemination cannot be achieved by enhances of that of the vaguna) The lateral parametrial tissues — and the round and infundibulopelvic ligaments are —divided. The peritoneum is closed by a suture including the adnexal stumps The perineal wound is then sutured and the wound cavity tamponed After the operation from 2 to 3 roentgen treatments are — given (Friedl.) Louis Neuwell, M D

## MISCELLANEOUS

-Bishop, P. M. F., Cook, F., and Hampson, A. C. Indications for the Clinical Use of Progestin - Lancel, 1935, 228 139

The role of progestin in normal menstruation is o produce the progestational phase of the endo netrium and inhibit the spontaneous activity and esponsiveness of the uterine muscle to oxytocin from the posterior lobe of the pituitary) This role persists during the first three months of pregnancy

When progestin is prematurely withdrawn during he menstrual cycle the uterine muscle undergoes rolent and painful contractions giving rise to dysnenorrhoa. The result of the withdrawal of proestin during early pregnancy is habitual abortion lue to the return of the uterine contractions and withdrawal of the stimulus to decidua proliferation Cherefore, in both of these chinical conditions proestin is indicated

In cases of menorrhagia and metrorrhagia in vhich no pathological condition is found in the ielvis and the abnormal bleeding is considered due o madequate stimulation of the ovary by the pitutary gland, progestin is of value when administered orth pituitary preparation. If hen the deficiency of situitary secretion is so great that the ovary fails o secrete sufficient cestrin or progestin to stimulate he uterus, an infantile state of the pelvic structures esults Chinically, the menses are scanty and inrequent and associated with dysmenorrhoea, or omplete amenorrhœa occurs Functional sterility 1ay also be present Large doses of cestrin are ometimes successful in developing the uterus to the dult size, and if they are followed by progestin, ienstruation may ensue

On the basis of these facts the authors suggest

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Habitual abortion One rabbit unit of progestin iven daily for two months, the treatment being egun a month before the usual time of abortion. Threatened abortion One rabbit unit of progestin dministered daily until the signs of threatened bortion, that is, bleeding and pain, have disapeared. Rest in bed is essential during this treat-

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Dysmenorrhoa One rabbit unit of progestin given as soon as the pain begins or a day or two previously, if possible, and continued until the period ceases

Uterine hypoplasia The injection of 250,000 international units of cestrin (in the form of di-hydrocestrin benzoate) on the first, fourth, eighth, eleventh, and fifteenth days of the course, a total of 2,500,000 units being given. On the nineteenth, twentieth, twenty-first, twenty second and twenty-third days the administration of i rabbit unit of progestin. Menstrual bleeding may occur on any day up to ten days after the last injection of progestin. This course, as originally outlined by Kaufman, should be repeated. The success of the treatment is determined by measuring the increase in length of the uterus. The treatment does not appear to be effective in severe and long-standing secondary amenorthose or in most cases of primary amenorthose.

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A F Lash, M D

# Barringer, E D The Treatment of Gonorrhoa in the Female J Am M Ass., 1934, 103 1825

This article is based on the cases of thirty women with genital gonorrhoa who were treated with gradually increasing doses of vaccine, five who were treated with small doses of vaccine, and thirty who were given only routine treatment. The vaccine was prepared by the New York City Bureau of Laboratones from seven of the Torrey strains

The results, while not entirely conclusive, were sufficiently good to warrant further investigation. The vaccine treatment seemed a valuable adjunct in the acute and subacute cases and also in the chronic cases without a "mixed" infection. As the larger doses caused a considerable local and general reaction, the author questions the advisability of their use. The general impression was that vaccine therapy in conjunction with routine treatment may shorten the period of hospitalization.

HENRY S ACKEN, JR., M D

Abruzzese, G The Constitutional Predisposition to Tumors of the Genital Organs in the Female (La predisposizione costituzionale ai tumori degli organi genitali nella donna) Riv ital di ginec, 1934, Supp Vol 17

This article is based on a study of 219 females with extragenital tumors, 2,237 females with tumors of the genitalia, and 1,000 controls. The patients with extragenital tumors were studied to determine the occurrence of multiple tumors in association with genital tumors. All of the tumors were examined histologically. The 2,237 tumors of the genitalia included 1,159 fibromata of the uterus, 297 simple ovarian cysts, 147 malignant ovarian tumors, 167 carcinomata and adenomata of the corpus uteri, 422 carcinomata of the cervix uteri, and 45 vulvovaginal carcinomata.

Heredity was found to be an important factor in the development of tumors as a history of maligwas very well supplied with vessels, particularly

TODO YEARS

Because of its site, Walks concluded that the tumor had its origin in the connective these supporting Bartholin a cland.

(SCHILLER) JACOB E RAPPE M D

Schauffler, G. C., Duke R., Crynes, S. F., and Schauffler G. Infection of the Immature Vagina; Observations and Results. A Study of 189 Patients, Il cal, J Surg Obel & Gymes 014.

Of the 3g cases of infection of the immature vasina reviewed in this article, of were private cases and 8 were dispensary cases. The athors stat that although it was formerly believed that children with such injectio should be hospitalized, many homitals avoided taking them as they egard ed it us no to growp such children with children who were uninfected. Finally the conclusion was drawn that the dogmatic rubing in favor of hospitaliration was fundamentally wrong

The uthors report the organization of an out patient clinic for such children. Children who are court cases and those who cannot be satisfactorily managed in their own homes are commutted t the care of foster mothers under very close supervision by social service and vidting nums agencies. Thereby they are bolated from contact re-infection with out hospitalization and are kept from being stigmatised in the community They re scientrically treated and beerved with kindly personal super

vision in private homes The authors discuss chiefly a method of treatment

devised on the bases of the suggestion of Gelborn and Stein. In this procedure anhydrous lanchin with a 1 per cent content of alver nitrat is intro-

duced into the infected vagues under sufficient pressure t cause definite ballooning and thorough nd prolonged pplication f the antiseptic

Of the 50 cases reviewed, nly 90 are discussed in detail. The 90 others are excluded from detailed discussion because the condition was not vaginitis, the patient was still under treatment when the report was written, the patient did not complete the treatment, failed t return for reexamination, or received other treatment, or the diagnosis was questionable

Conorrhon was demonstrated by positive smears ra 5 per cent of the 00 cases and was behaved by thors to have been the cause of the condition in a large number f those in which the sinears were questionable or negative. A cure was obtained in 41 (So 1 per cent) of 5 cases with positive aments, 26 (8 a per cent) of 3 with suggestive smears, and 6 (87 s per cent) 1 6 with negative smears

In the dispensity cases, in which the duration of treatment before pronouncement of cure was longer the madence of recurrence was lower and the middence of cure was higher than in the private cases. In the total umber of cases the incidence of

single recurrence or re infection was 5 per cent.

It was found that children who have once suffered vaginal infection are such more apt to contract a subsequent infection. However, the symptoms and active infection were relieved very much more easily and quickly in subsequent attacks then in the initial ttack

Factors favoring recurrence or re-infection inchude systemic infections, enervating and fatiguing ctivities, proctitis, pin worms, masterbanen, yelltis, and foreign bodies. True andocervicitis, bartbolimitis, nd skeniths are seldom of importance in this respect. An examination for foreign bothes should be made in every case of suspected vaginal infection. The presence of foreign body is essailly manifested by a scroszoguizeous discharge Loss of blood is seldom noted in the most vagnitie

In smaller groups of cases various antisepties ere employed, but none as as efficient as the authors method. The use of suppositories containing pyrich in in a gelatia base was found of value as an adjunct treatment. The polication of cold quarta light with the orificial policator was beneficial. The a thora re convinced that this is a valuable. supplement to other methods of ambulatory treat ment. In small group of poorly selected cases the use of theelin as disappointing. Psychic trauma in the patients was due t — morbid attitude on the part of the physician or the parents. The danger of psychic traures incressed with the pproach of puberty ROBERT M. GREEN, M.D.

Trapi, J. The Treatment of Primary Cancer of the Vagina (Behanding des primeres behinden-krebses) Razil Chir Gynest C Gynest 914. 1 85

The author reports 6 cases of primary cases: of the vagina which were operated upon according to has technique. Two of the patients remained cured after five years. Altogether 5 cases of primary cancer of the vagina ere found among 6 3 cases of cancer of the cervix treated in the period from 92

The condition is extremely makened According to the reports in the orki hterature, sa absolut cure is obtained in only from 6 to 8 per cent of the cases. The author gives birel review of the different operative methods and describes has own method. The latter is combination and modification of the Cunfo Prox method and the America method

After an arch-shaped increson th the convex side anterior has been made in the perforum frees one tuber uschi to the other the vagina is dissected from the rectum, vagual cuff is made, and the paravaginal and parametrial thuses are dissected free The posterior parametrial tissues and the rectum are then dissected, the cul do set of Dooglas is opened, and the transverse cardinal bysmeats of the cervix and the eterine ertence are ligated and divided The bladder and areters are separated of, and the vence-uterine space is opmed (according to the advice of Stoockel, the bladder is separated only alightly so that its contour is definitely elevated from

that of the vagina) The lateral parametrial tissues and the round and infundibulopelvic ligaments are divided. The peritoneum is closed by a suture including the adnexal stumps. The perineal wound is then sutured and the wound cavity tamponed. After the operation from 2 to 3 roentgen treatments are given. (FRIEDL) LOUIS NEUWELT, M.D.

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Functional menorrhagia Extract of the anterior lobe of the pituitary gland given by injection up to 500 rat units three times a week over a period of two months. The course may be repeated after an interval of a month or two. In the premenstrual phase and during the time of bleeding the extract should be given daily, together with a rabbit unit of progestin.

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nancy in other members of the family was 3 times as licelized in the cases of problem is in the controls frequent in the cases of neuprasm as in the control of Most commonly the history of multimacy was on the material side of the bandy. He heredistry the material more in the mental prediction to tencercy may or covery a general precaposation to tunor formation, but frequently is specific as to the age of the times. V participally a facility and are us tumor a managers specially was noted except in the occurrence of absorbits. The

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Rheumathus, hepathe calenti, and metabolic diseases

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The other reports his observations in the cases of thirty-dela so-carried Lemies philodopsis. In space battering the omen of copies pearing also are comfound a marked resistance in the left forms extending appeared to involve the para-electron connection theme and an infantile uteras which frequently deviated toward the left

In the older merature the condition was often described as chronic parametritis atrophens Many (imbutes it to deficient orantes function Attent to distinction of the blood apply cape cially through the stero-oversen vessels

Woods with this condition are steady Histotopical resultantion reveals acknowled the petric connective tiene on the left side

Oronge C Morr' ND

# **OBSTETRICS**

# PREGNANCY AND ITS COMPLICATIONS

Robinson, L, and Datnow, M M The Differential Diagnosis of Pregnancy Lancet, 1935, 228 I

The authors discuss the indications for the diagnosis of pregnancy from the personal, legal, social, and medical points of view. In discussing the methods of making the diagnosis they emphasize the importance of considering the clinical features in the interpretation of the results of the tests. They state that it is in the complicated cases in which organic disease is associated with the pregnancy that the greatest difficulties arise. The variability of the symptoms and signs is shown by tables

The first test for pregnancy consisted in noting the effect of the woman's urine on barley and spelt This test was recorded in Berol's papyrus dating

back to 1350 B C

The most recent biological tests, such as the Aschheim Zondek, Friedman, and Brouha tests, are described and discussed The Liverpool Pregnancy Diagnosis Station uses the following method

One-half cubic centimeter of early morning urine is injected into four immature female mice weighing between 7 and 12 gm each. The injections are repeated twice daily until five have been given From ninety six to one hundred hours after the first injection the mice are killed and their genital

organs examined

The results are classified as simple positive, simple negative, and modified reactions. The simple positive reactions, which are typical ovarian and uterine changes, are due to the combined action of prolan and cestrin and indicate the presence of active chononic elements in the patient's tissues simple negative reactions are obtained when both prolan and cestrin are absent from the test urine The modified reactions are of two types In the first type, the experimental animal shows distention of the uterus, but no change in the ovaries after the injection of the test fluid According to the authors' experience, this reaction indicates the presence of only one hormone in excess in the test urine, namely, estrin It occurs when the urine is obtained from women with threatened or incomplete abortion. In the second type of modified reaction there is hypertrophy of the walls of the uterus, but only partial activity (follicular distention but no hæmorrhage or luteinization) in the ovaries This reaction is due to the presence of one of the prolans (and absence of œstrin) in the test urine. It may be produced by the urine of women at the menopause, women with genital tumors, and women who have been subjected to castration

In conclusion the authors emphasize that these tests are made to determine the absence or presence

of hormones and their results must be interpreted in the light of the clinical findings

A I LASH, M D

Gregersen N F On Ectopic Pregnancy Acta obst et gynec Scand, 1934, 14 346

The author reviews ninety-five cases of ectopic pregnancy which show that the condition occurs with equal frequency throughout the period of fertility

Thirty of the women were nulliparte and sixty-five were multiparte. In the majority of the cases there

was a period of secondary sterility

Twenty one of the women gave a history of salpingitis, four had been operated upon previously for ectopic pregnancy, and five had been operated upon for other conditions. Fifteen had never borne a child or had an abortion or suffered from any disease of the internal genital organs.

The general symptoms of ectopic pregnancy are described. Of twenty cases in which a diagnostic curettage was done, examination of the mucous membrane showed decidual changes in nine.

Of seven cases in which the Aschheim-Zondek test was carried out, it was positive in five. In the two cases in which it was negative, tubes containing a dead embryo were removed. It is evident, therefore, that this test is a valuable adjunct in the diagnosis.

Of twenty-two cases in which the gonococcus complement fixation test was carried out, it was found slightly positive in four

In all of the cases the treatment was operative

removal of the ectopic pregnancy

The findings of pathological examination confirmed the opinion that the cause of the retention and implantation in the tube is to be sought neither exclusively nor as often as is believed by many in an earlier salpingitis, but rather in ability of the tube to produce decidual changes, endometriosis of the tube, or congenital malformations. Moreover, in a number of the cases the inflammatory changes in the wall of the tubes were of such a nature that they could well be considered secondary to the presence of the ovum

The author beheves that the transfusions of blood given in some of the cases—most of which were auto transfusions—were responsible to a great extent for limitation of the mortality to 2 per cent. This opinion is supported by the comparatively short time the twenty-two patients treated by transfusion were confined to bed. In these twenty-two grave cases with profuse hæmorrhage recovery resulted in a shorter time than in the remaining sixty-three cases in which no transfusions were given, the average number of days required for recovery in the two

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Because of the wide differences of opinion regard ing the value, technique of administration, and ing the value, technique to aumunitation, and mode of action of vaccines in pythicis of premium, more or action or vaccines in pyrenes as presumed to the treatment the author reports his experience in the treatment of twenty-cipit case of precompilities of the precompilities of the precision hancy these cases, an or insourant acceptory acre proved to be resistant to ordinary medical methods proven to be remarked to ordinary memoral memoral free times (diet, turbarry antibeptics) before the saccinotherapy was lucitated

Two forms of vaccines have been advocated, stock vaccines and autoproces vaccines hamer) stock vaccines and solvewood vaccines Some believe that they exert their effect chiefly by canding protein abook, whereas others believe that causing protein anock, whereas senses on all least the autogenous vaccinas produce minimization particularly in coon-breilins info

minimization particularly in cosmo-tectura inter-tions Convenier consider all vaccious dispersors excellent to observe the present of curps in occess and are coverney incidence are a road the dangers of the subcursances administra arms the diagras of the subcuts arous administration of vectors flundes and Regatics administration enterpretation makes a subcut of the subcu saits were excurrent assume continue time no norm

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The vaccine is made up in second. embodie contribus (too to 4 pilled carrows per cable centimeter Begraming with

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were bute colou paralles infections. If the one execution is the contraction of the contract o acts pure treatment with autogenous ton, an response in trainent with anogenous raccine the case of encrocords interior was also size freedof encountry. In the remember case is done in interior of encountry case the subscripts of solid backlists of subscripts of the control of the case of OSCIPTE CROSS GREEN AND RESPECTANT, ONE CARE
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ty incurrences, too encaptering result was excess four A partient with infection due to colon bacilli, heard-diphthroad bacilli, and enteroxed size None of the diagraph symptoms leared by some

Mone of the unapproved sympation review by some moted although in most oxide there as a

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or treated.

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The a thor concludes that autoparous vacclos therapy is sufficiently satisfactory form of treat therapy is sufficiently attractory form or trust mean in pythospherics to arran in crottle ten in it is to a procepheric to arran in crottle ten in the pythospheric process p only prological treatment can be effective Consoll, N

HARRY C MACK MD and, N. Determination of Line Principles to the Tournels of Freehance by the Hanne Clearle Reaction of Machin ide francolous Access Asserts in the Insurance of Asserts in Charge Ranction of Jacobs (in transmission of the Control of the C

The author reports studies of the liver function of with the property and the state of the more of the state to motion technique which common means technique which common com traff), of tecompal the parochie uniones to serasted that estimate (published of carabone) uninequal or the property of carabone or services or the control of the carabone o Two of the women subjected to the test acts potenti accour in Astrona serokarico on mu sancy three had supply albustments, ar had presections and salar and echembers and trees and surface and sections.

In the cases of the normal source and those with An too cases or one normal number and chose was almpto alluminated the test was negative, hereat and the case of these with pre-octubes the majority of the least or positive and in the case of these with pre-octubes the majority of the least of these with actuations all of the texts were strongly positive

The thor concludes that there is no lives through in normal pregnancy or pregnancy completed by anapple alloudiants, but that in eclampas and preeclarapses there is marked first demands

cates that the tast described is slubbe and rapid and of prognosite value in the various forms of incernia of prognosite value in the various forms of incernia of pregnancy with or without hepatic Interior in Groupe C French, M.D.

aftern minator. On the other hand, in thirty-one cases of storic bleeding following expelsion of the placests, good results were obtained from the little instantial production of e.g. (mgs) of expelsimine tartraits and missage is from three t eight emission. Hot otterine triffagtons were occusive; is only four cases. In seven cases romiting occurred from one to two boars after the feet cost of forty-eight cases in which only 35 mgm of expelsionless intrinsis was given furturementally; the results were summitfactory and it was accommand to more the other proting of the command of the command of the production of the command of the command in which the 16-spen done was repeated, the homorphage storoged but routing occurred, the

I lockhonetra, the administration of expanning territarity by adecide in the form of expanying or mouth in duity dose of mgm for one were highest good results in agity of the autherwalds results abdatined by Bowang, Koertleg, Terold, Schimmel, and Schimter with preparations of sease commutant draming above the authors attempted to employ experts on ungover labor paties on the besign of the season of the s

fetns it was found impossible i three to melece labor by to injections of it trem at intervals of one andone half hours, and in two by three injections of 14 mgm at half-hour intervals. Following these tests, twenty-two women a th premature rupture of the membranes, fifteen of whom were in the stage of dilatation, were given from one to four injections of 16 mans at ball bour intervals, and after a period of intener of from fifteen to twenty minutes a good effect on the contractions of the terus was observed The use of forcers became necessary is only two cases and then not until several hours after the inlection. One of these cases required blab forcers. I the case of a para there was noted, fter the third injection, a transpory disturbance of the heart topes of the child which councided with vomiting of the mother. After forcers delivery the child developed tetame spenns of the lower highs and died of pren monie and cerebral harmatoma thurty one monte later Another child was been spontaneously in severe ambyxis as the result of powerful tetanic expulsive pains and could not be revived. Because of the torse passeomens, the authors behave that in the first case douth was caused by direct tonic layery t the arreshation of the fettes

After the third rapertion of 1s mpm at half been intervals there was often as accessful tase of terms which was meaningted by counting. A other toos phenomens were observed in the mother. Even when the design was given for considerable proof time (4) mpm dull for terms they like a way of time (4) mpm dull for terms they like a way of time (4) mpm dull for terms they like a way of the reason of the man of the state of the state of the state of the dull described by Couprishing an infectious tance factor is necessary it pring on the condition. A transfert increase in the blood presented

sure of from so to 25 mm. Hg was first observed after 36 sugm had been given intrassementably After this dose, no change was observed in the blood picture. (Fazza) Jose W Bravas, MD

Kottraeler H. L.: The Rasults Oberised With Thymosphysiu in Chert of Weak Labor Paine (Resultate tait Thymosphysiu hel Webrach seches) Atta old. of green Sanni 1914, 14 151

After a brief critical review of the literature on thymophysia, the author reports the results ob tained with this substance in 163 cases of primary and secondary sterine thertis on the service of Abbitrom at Alimanna Barabordskopet. The mor tallty and morbidity of the mother and child in these cases are compared with the corresponding mortality and morbidity in \$ 300 cases of primary and secondary terine inertia in which as labor influening drug was given. This comparison shows that the are of thymophysin considerably improved the prognouls for the mother and child and decreased the attraker of dangerous obstatrical interventions On the other hand, the athor calls, thuston to the fact that themonium me cause amberia that occasionally its rejection is followed by speems. and that different nomen react differently to the same door Because of these facts he emphasizes that thymophysin should be given only is cases of terine lucrise and at first in dose of less than 16 c.cm a amount hick apparently is associated with shirbt denser

Contra indications to the use of thymophysis are contracted petra, transverse position and incorrect presentation of the fetus, and renal and cardiac disease of the mother

In traffes of the blood pressure nade damag and between the pains in the periods of allustrion and exputition in the cases of women treated with thymophysis the arther found on appreciable forcesse as compared with cases in which thymophysia wer not diministered. Therefore the use of thymophysio is set oncirs indicated in the presence of a moderate increase in the blood prisons.

Thyrmylayas, was not effective in exhausted patents of in the prehibe period. It was willout apparent effect also is from to to 15 per eres of the reviewed came in which the mobiler as thoroughly rested and labor had begun. Possibly this lack, will be the feet that the property of the lack will be the property of the property of the property of the property of the results of apparently better when the dynamics of merital property are given a relatively early stage of merital

Leon, J. Deleyed Rupture of the Beg of Waters Octable Reflections Conscienting the Byretheses of Kreis (Rupture returner de le peche éet eax: Quidracs Hictuss & preson der apportune de Kreis). Dyak's de lede. 344, 35, 359.

It is well known fact that during labor the per senting part, even in the absence of polyuc obstacles, may fail to descend and the big of ten remain unreprined despite advanced or complete dilutation of the cervix The author takes exception to the recent explanations of this phenomenon offered by Kreis and the Strasbourg school, namely, that the bag of waters retards rather than promotes the progress of labor He bases his remarks on a case observed by him in which the fetal head, after having been deeply engaged, returned to the superior strait.

The author lists numerous factors which determine the time of rupture of the membranes The chief factors are mechanical, i.e., they depend upon the relationship between the intra amniotic pressure during uterine contraction and the elasticity of the membranes during their distention During the period of dilatation, rupture of the membranes is prevented by a regulatory mechanism in that, as the intra-ovular pressure increases, the distensibility of the bag of naters is increased by progressive separation of the membranes from the uterus which results in an increase of volume and at the same time a diminution of the internal pressure. Theoretically, late rupture of the membranes may be due to (1) insufficiency of the uterine contractions, (2) oligohi dramnios, (3) sealing of the big of waters by the presenting part during contractions, (4) extensive separation of the membranes from the uterus, and (5) diminished resistance of the lower uterine segment

While in exceptional cases rupture of the membranes may be prevented by greatly thickened and toughened membranes (pathological), early rupture or late rupture does not necessarily imply variations in their structure. Mechanical factors must be sought for, chiefly factors concerned with the state of the lower uterine segment such as were present in

the case cited by the author

By means of an instrument devised by him and shown by an illustration included in the article, Leon attempted to reproduce the conditions present in the parturient uterus. From his findings he concludes that transverse expansion of the lower uterine segment (without marked elevation of the contrac tion ring) explains why the bag of waters does not rupture even though the membranes are not unusually resistant. It explains also why the presenting part does not engage when it remains elevated and why it may rise again after having been en gaged The bag fails to rupture because the intraamniotic pressure is lowered (provided, of course, the membranes are sufficiently distensible) head fails to descend because, after they give way, the walls of the lower uterine segment no longer have a tendency to constrict and the fetal head no longer has a tendency to engage itself through fletion. If the head has already penetrated the pelvis its "potential energy" tends to carry it to the superior strait in an indifferent attitude Knowledge concerning the physiology of the parturient uterus and the properties of the membranes proves that relaxation of the lower uterine segment is due, not to excessive pressure of its contents (ovular theory), but rather to the diminished resistance of its walls

(segmentary theory) This, in turn, is the result of inhibition or active decontraction of the circular fibers or the altered state of the tissues (fatty or hyaline degeneration of the musculature, alterations of the elastic elements) which causes them to give The author designates it as "the way readily syndrome of giving way of the lower uterine segment at the end of the period of dilatation in the presence of normal uterine contractions" He suggests this special designation to emphasize the theory of pathogenesis which he considers most plausible and to distinguish the condition from other secondary dynamic insufficiencies in cephalic engagement and uterine dystocia which are also characterized by transverse expansion of the lower uterine segment but in which there is concomitant tetany or retraction of the fundus

HAROLD C MACK, M D

Burns, J W Breech A Method of Dealing with the Aftercoming Head J Obst & Grnac Bril Emp, 1934, 41 923

The author presents a method of dealing with the aftercoming head which he believes permits the head to follow the normal course of delivery and prevents the application of undue force to the child

The method is as follows

After delivery of the arms and shoulders the child's body is allowed to hang from the vulva. This produces flexion of the head and brings the nape of the neck well into the subpubic angle. In most instances it brings the head through the brim with minimal force and traction. If the weight of the child's body alone is not sufficient to accomplish this, suprapubic pressure may be exerted by the obstetrician. When the head is in the pelvis the obstetrician stands sideways to the buttocks and, using the hand farther away from the patient, grasps the ankles of the child in their most dependent posi



Fig 1 The position of the infant at the moment the grip is first applied and traction is exerted.



I ag. Completion of debuty

tion and applies termion notward and upward, ruling the child and at the same time extracting it. The force of extraction which can be employed in relatively slight, but must be maintained for the use of an upward force since will result in serious injury 1 the child. Burnes emphasizes that haste in unnecessary in delivery of the breech persentation.

MISCRILATIOUS

Gonfantial, M.: The Behavior of the Blood Segar

After Injections of Placental Extracts (Il ten

perfamento shi tano ghomnoo in segmin all laiestone di estratti pinoratani). Ass. shi di pase 1934, 7

Since the discovery of insulin and recognition of the fact that other substances also may produce hypoglymenta, various extracts of the placenta here

been strained to determine the relationship of the placeast to cubelly-drive insetable in. The major researches reported in the interations are reviewed. The author made a series of expendents in which placeast extracts were introduced into anamaking various records and the blood-segar levels there determined. He found that the injection of placeast contracts in geometry produced a consular by reporters that the contract of the contract is present to the con-

ms and proloogation of the curve of allmentary frcensis. The results were disalter sketcher the setracts were introduced subcataneously intraously or intrapritousally and better they were obtained from human beings or anisals. The injection of similar doses of various proteins for cantrol produced analogous but less marked thanges

On the basis of these results the author concludes that extracts of the placents exert—specific but only a moderate influence on the blood augus level.

A Loca Rose, M D.

# GENITO-URINARY SURGERY

# ADRENAL, KIDNEY, AND URETER

Goldzieher, M., and Koster, H. Adrenal Cortical Hyperfunction Am J Surg., 1935, 27 93

Five cases of hyperfunction of the adrenal cortex treated by unilateral adrenalectomy are reported Four of the patients were benefited and one died Histological examination revealed a pathognomomic alteration of the reticular zone Enlargement of the adrenal gland was not equally conspicuous in all cases Storage of lipoids in the external layers was always evident but did not differ materially from that occurring in cases of adrenal lipoidosis without the clinical symptoms described. In all five cases, microscopic study showed the hitherto unrecognized formation of an unusually broad reticular layer in the cortex. The authors do not recall having seen comparable cortical changes in any other condition.

The tripartite syndrome includes hirsutism, obesity, and menstrual disorders. Three glands can be brought into causal relationship to it the pituitary, the ovary, and the adrenal. In an analysis of the glandular factors responsible, the authors point out differences in the symptoms. They state that the differential diagnosis of the underlying morbid changes requires both positive and negative findings—negative findings as regards two glands and posi-

tive findings as regards one gland

When the ovary is responsible, the cause is probably an ovarian neoplasm. Gynecological examination usually reveals the presence of such a growth If an ovarian tumor is palpated in a patient with hirsutism, generalized obesity, amenorrhæa, or metrorrhagia, the diagnosis is rendered certain. In the presence of virilism with a large clitoris, a husky voice, and atrophy of the breasts, the diagnosis of ovarian arrhenoblastoma may be made. If bimanual palpation is unsatisfactory for any reason, other causes must be excluded.

In examination of the pituitary greater difficulties are encountered Roentgenography of the sella turcica and studies of the evegrounds and visual helds yield excellent presumptive evidence if they are positive However, negative findings are obtained in cases of small tumors (basophilic adeno mata) Disturbance of carbohydrate metabolism suggests pituitary disease A high sugar tolerance and a tendency toward hypoglycæmia accompany hypofunction and a decreased sugar tolerance and hyperglycæmia are usually associated with hyperfunction of the anterior lobe of the pituitary gland Chemical study of the blood may disclose a high uric acid content Disturbances of chloride metab olism combined with either oliguria or polyuria are indicative of a posterior lobe affection Frequently an affection of the posterior lobe is associated with

an affection of the anterior lobe Disturbances of sodium chloride metabolism are revealed by a sodium chloride tolerance test

Determination of the basal metabolism yields little or no information, but the specific dynamic action of proteins is of greater significance in pitui tary disease if a small protein test meal is used. The specific dynamic action is low in hypopituitarism In cases of tumor it is normal or elevated. Another diagnostic aid is the fat-tolerance test. If fat is fed to a normal or obese individual the acetone-body content of the blood rises In pituitary obesity there is no such rise Pituitary disease may be revealed also by skeletal measurements, the facies, the appearance of the skin and teeth, and the distribution of pigment Conclusive evidence of pituitary hyperfunction is the demonstration of pituitary hormones in the blood or urine. In the immature mouse, a positive reaction is shown by maturation of the ovarian follicles

Exclusion of the ovary and pituitary as the sites of the lesion points to the adrenal cortex as the cause Bilateral diffuse hyperplasia of the cortex or a tumor can be differentiated only by inspection Marked virilism is more likely to be the manifestation of a neoplasm and obesity a manifestation of hyperplasia. The demonstration of the cortical hormone in the urine has not yielded unequivocal results. Thus far, a substance showing physicochemical properties similar to those of interremin has been isolated.

Louis Neuwell, M.D.

Geschickter, C F Suprarenal Tumors Am J Cancer, 1935, 23 104

The author reports 105 primary tumors of the suprarenal gland Among them were 66 benign and 6 malignant tumors of the cortex. Of the benign tumors of the cortex, 63 were found at autopsy and had been asymptomatic The principal signs of the 3 others were sexual precocity, hypertension, and a mass Those of the malignant type without symptoms of excess suprarenal secretion were associated with obesity, hypertension, and a mass In the cases of symptomatic tumors, virilism, hirsutism, and hypoglycæmia were found

Malignant tumors of the cortex of the suprarenal are rare. They are accompanied by pronounced endocrine disturbances Children with such tumors show sexual precocity, whereas adults show marked sexual inversion Females are more affected than males. In children, skeletal changes, disturbances of sugar metabolism, polycythæmia, and mental retardation are frequent, and in adults, psychic disturbances are common. The pituitary sex hormone, female sex hormone, and Prolan A may be present in the urine.

To explain the sexual changes the following theories have been advanced.

The adrenal cells of the tamor act indirectly on the gonada

2 The changes are produced by the adrenal cells which retain their primitive sex functions

3 The adresal cells attimulate the anterior lobe of the pitelitary which in turn acts on the gonada

The widence favous the latter two theories. The needlangy tumous apparently arise from a single stem cell which is separated from the neural cert cury in analysome tile. They may be very smallganat or benigs off 55 such tumour reported, say wars mercohastoments. Swenters of the latter occurred in children and 4 in adults. In structure, the neuroblastomene nesembles the grapathest tumor occurring in the outlying vertebral ganglis and the retirablastomes and the medicillobiastoms of the core-bellum occurring in children. It is very smally ment

In the cases of superseas It mor in children the most common numbrataneas were an abdominal mass, pain, younting, and emacistion. Fever emphatismes, and joint pain may also occur. Pepper emphasized the early per at which the tumors appear their rapidly. In course, and the associated properties of the period of the salest the first yaptoms may be due to vertabell metastass. Of the author' cases, as the was found 1 astoppy in a Metastase to the long boses, splic, or peira saw occur before invalence of the long state.

The tumors are not radiosensative. One surgical

cure has been reported

Among the scopiasms reported by the author were B paragraphonate which were equally disclosed into benign and malagnant groups. See his explains any be associated with hypertensors, hypotensors, vacanoster matability. Addison: synthyme multiple neuroflewmentows, glycomics, or hyperthroidism. They ranky coach, large sore. The larger tumors are offen cystole.

The tumors reviewed included ganglioneurous and chromatin tumor. These seephans are very rare. The ganglioneurous is the most legilly differentiated neurogenic temor, and the chromatineous the most legilly developed ondocurate tumor of the mediulia. Mahayasat and henge vaneues of each here been reported. Clears in Procurati, M.D.

Bener J and Leviche, R The Glinical Appetts and Treatment of Paraghangheres. High-Freezer Crises of Suprement Origin (In: Kinik and Therapa des Paragnaphons Adminigens Hochdrackinses) R see this Hotsale 934, 24

Since the days of Pal, pressor vasceins cross he bem understood to be transitory (sachs of increased blood pressure which in most cases are due t central or reflex blood pressure cross life blood pressure cross bidong also distinct

form which is independent of the aforestentioned etiological factors and is classified by Bernal as being anatomically similar to surrinalouse or solidalosurrinalouse hypertensif

The authors report is case of the latter by e in which the statch occurred in ferty year old man which had previously been betility. The stricks always occurred in the same numer being stricks particularly occurred in the same numer being stricks particularly and stricks always occurred in the same particular that felt cold to the touch parpitation of the been, alwing, and idealing a plantion in the synclass. They lasted for from con-half hour to see and one-ball bours, and occurred daily with absolve regularity. They could not be furtherned in any by drays. Daring rest the blood preserve varied from 160 to 180 mm. Hig. During an attack it rose to 180 mm. Hig. During an attack it rose to 180 mm. Hig. During and occurred the same products of essential high periods.

sore of seprenessi origin was made After finding in the literature the reports of more than six similar cases which were operated mon sac comfally the authors explored the right kidney in their case. However, nothing absorred was found. At later exposure of the left kidney, a smooth escapsubted tumor the size of therry as found attacked to the inner pole of the left suprarenal gland. Since the removal of this tamor the tiacks have not it curred Histological ensurination of the neophers revealed the typical algae of a peraganglione. When such a condition is assumed after all diagnostic asts have been exhausted, extirpation of the tumor is the only therapeutic measure to be considered. Extir pation of the suprarenal gland should not be done Attention is called to the fact that in the case reported the polse rate was either normal or defnitely reduced during the high-pressure crises. The authors are unable to offer an explanation. They behave that in this form of high pressure trady cardia the great facrouse in the arterial pressure derlay the attack undoubtedly results in increase arratation of the pressor-receptor nerve areas in the carotid sions and the arch of the aorta which only necessarily produce a redex bradycards bradycardia proves also that there is no vascular sciences in cases of this type

Primes, M. Q.: The Intercal Topography of the Arrevial flysterm of the Editory and Reside Petro of human belong to the Primer and Primer of human belong to the Primer and Primer Reconstruction of the Primer

(P Screen Planeters) Marries J Service, M.D.

Following review of the Hernsture the author first describes the seathed sead by him in the study of the interest topography of the arterial system of the latchey and renal pelves. After careful describes, the freshly reserved kindery of a lemma being, doe, cut, or rubbit in filled by the injection sind current current of contrast medium (a mixture of Relaxiv). plaster of Paris, and water) and studied roentgenographically. To study the vascular system of the kidney, a mixture of litharge, white lead, or lead oxide in vaseline or oil of turpentine is injected into the vessels through a cannula. Dorsoventral, lateral, and stereoscopic roentgenograms are then made. In addition, a combined method is used to obtain simultaneous views of the vessels and renal pelvis.

In studies of 432 kidnevs (among which were 119 human specimens), 942 roentgenograms were taken From the findings the author draws the following

conclusions

Comparison of the renal pelvis of man and domestic animals showed a similarity between the renal pelvis of man and the pig on the one hand and between the renal pelvis of the dog, cat, sheep, and rabbit on the other On the basis of form and development the following 4 types of renal pelvis are recognized in man and domestic animals (1) a dichotomous branching of the ureter in the kidnevs of large ruminants such as the cow and or (rami ficatio ureteris), (2) a 2-horned renal pelvis in the monopapillary kidney of the horse (pelvis bicornis), (3) a renal pelvis with leaf-shaped branchings in smooth kidneys with complicated papillæ (cat, dog, rabbit, sheep), and (4) a renal pelvis with true calyces in multipapillary kidneys of the human being and swine (omnivora) The extrarenal type of renal pelvis is more constant in the adult and the intrarenal type more constant in the newborn Ivanitzski's classification of renal pelves into the embryonic, animal, and human types has been proved inaccurate Kuprianow's division of the arterial system of the kidney and renal pelvis of man into a complete and an incomplete type is not correct from either the theoretical or the factual standpoint On the basis of phylogenesis and onto genesis as well as the anatomy at different age periods it is more correct to distinguish the following 4 types (1) the early embryonal, (2) the late embryonal or fetal, (3) the adult or mature type, and (4) the infantile type In the lower animals as well as in man the branching of the renal arteries is not uniform There are 4 types (1) the first magis tral type, which occurs chiefly in the large ruminants, (2) the second magistral type, which occurs in the horse, (3) the scattered type, which occurs chiefly in Lidneys with a leaf shaped pelvis, and (4) the bifurcation type, which occurs chiefly in ommivora Between these types there are transitional forms The branching of the arterial tree in the kidney is related to the structure of the kidney as a whole and the renal pelvis The relation between the arterial system of the kidney and the renal pelvis is so constant that in the lower animals it is possible to determine the form of the renal pelvis from the character of the vascular tree as shown in the roentgenogram and vice versa. In the cases of human beings it is possible to determine the type of distribution of the renal arteries with considerable accuracy from the shape of the renal pelvis as demonstrated by pyelography and the number, direction, and position of the interlobular vessels from the character of the calyces

Pyelovenous backflow is due, not only to simple mechanical stretching and tearing of the renal pelvis, but also to the anatomical structure of the

organ

In conclusion the author says that roentgenological examination supplementing the corrosion technique is of great value in the study of the internal topography of the kidney Because of its special clarity it should be employed in the study not only of human anatomy but also in that of the lower animals for which it has been seldom used heretofore (Colmers) Jacob E Klein, M D

Noszkay, A von The Value of Decapsulation in Cases of Medical and Surgical Nephritis (Der Wert der Dekapsulation in Faellen von internisti schen und chirurgischen Nephritiden) Zischr furol Chir, 1934, 40 107

Von Noszkay discusses the value of decapsulation of the basis of twelve case histories and draws the

following conclusions

The surgical treatment of non-suppurative and suppurative kidney inflammations has two aims (1) to arrest the inflammatory process and thus prevent further destruction of the parenchyma, and (2) to increase the more or less decreased function of the kidney as much as possible. The procedure best meeting the requirements is renal decapsulation by which the kidney attains conditions favorable for healing. While the favorable conditions usually last for only a few weeks or months, this length of time may be sufficient to arrest the inflammatory process in the kidney or even to bring about complete healing.

The effect of decapsulation may be attributed to the following factors (1) removal of the capsular tension, (2) the sympathectomy action of the capsular resection and the rehef of the angiospasm with a resulting increase of diuresis and cessation of the kidney pains, and (3) the removal of the infectious and toxic tissue secretions by drainage of

the intraparenchymal tissue spaces

In non suppurative nephritis the disease involves chiefly the parenchyma whereas in suppurative nephritis it involves chiefly the interstitual tissues. Therefore the indication for decapsulation is quite different in medical and surgical nephritis. Von Noszkay states that bilateral hæmatogenic non-suppurative nephritis is basically a medical condition, but there are mixed forms in which medical treatment is greatly helped by decapsulation. In the surgical treatment it must be borne in mind that the sites of origin of the infection (tonsils, teeth, appendix) should always be cleaned up or removed first.

In acute glomerulonephritis decapsulation can be recommended only in cases of severe oliguna or anuria. When acute glomerulonephritis fails to become cured or progresses under medical treatment.

biliteral decapatation performed as abon as posable is to be recommended to prevent the condition from becoming chronic. It is especially in such cases, the subject of so much controversy that a favorable result may be expected from the operation

In chronic glomerulone-phritis and secondary scientic kidney long-continued improvement cannot be expected from decapatation even though it may relieve original or annual for a short time. Therefore in these conditions the operation is not inci-cated.

Most types of himonrhadic nephritis should be classed with surts or thronic glosserulosophitis. The bleeding can usually be stopped by decapasit the bleeding can usually be stopped by decapasit the bleeding continuous Both types of supportative nephritis are purely surgical diseases in many cases crow results following internal local (instrumental) treatment. When the process progresse, decapation should be done as early as possible. It may be supplemented by nephroperay or in cases of entary states, by transversid drainage Nephrectomy should be performed to only the most extreme cases.

In chronic py choosphatta, py charaphritic scierottle kidney successful result from decapabilition can be expected and when a sufficient amount of force closing parenchyma remain. Under the latter or constituers the condution being an interchors denesse of the parenchyma, a more nuceration result can be expected from the operation than in cases of non-supportative ackrotic kidney.

In conclusion the author says that while decapsulation has proved to be a valuable procedure in conservation unique of the bidney careful consideration of its indications in essential for good results (Conserva, Patter A. Saire, vs. M.).

Comming, R. E. The Treatment of Bilateral Renal and Ureteral Calcult. J. Urel. 934, 32 400.

In cases of bilateral resal and unversal calcult the thory perfers, when surpeys a undentated, to attack the more involved hadney first II postules that procedure by his nown results and those obtained by postules that no surpeys and those obtained by coluine as applicable to all cases. Following desired as applicable to all cases. Following desired on the sessial method of operating first obligation of the control of the

Wharton, L. R. Pre-Operative Irradiation of Masgive Tuesors of the Kidney A Chinkel and Pathological Study 4rts 5srg 35, 30-35

The results of operation in cases of kidney temors are been unsumfactory. The data collected to the action show each that metastes ever present in from t operation of the cases. In from t of per tell only an exploratory operation as performed tests due to operative shock occurred! from 5

to 30 pc cent, and cure resulted in fewer than a per cent. Most of the poor results were due to the large size of the impor and difficulty in its removal by the usual lumber feeding.

The season turned and the season of the seas

In Group — ere there cases in which a mustitumor was removed after primitinary irradiation in the dirst case, biopsy had been done. Because of adhesions, the prognosis was not very far contriled to second case the tennor was a hyperacphross of the symmetral gland of the Gravia type the kidney was normal. In the third case the neoptime as a Wilms tumor. In all of these cases there as a marked reduction in the size of the tumor following terralization.

In Group 3 were two cases of tumor so small that are operative irradiation was not necessary

I conclusion Wharton says that pre-operatifiradistion results as hydrotaction, pyknosis, first mentation, and puriful destruction of the mitigant tissue and remarkable decrease in the size of the tissue and remarkable decrease in the size of the tissue and remarkable decrease in the size of the fore operation, but door not cure

The transperitoneal pproach prevents trausa to the transer before the vessels are figured and is the most logical, clear and surest pproach t kidney temoris Charge D Proceent, M.D.

#### BLADDER, URRTHRA, AND PERIS

Rihmer B. von Experiences With Directicals of the Bladder (tarakrungen actor Blacuch ethel) Incir / and Chr. 914 40 3

I on Ribmer first discusses the priori forms of diverticula of the bladder and their diagram. He then reports in detail twelve cases observed by his ad discusses them critically.

I his surpoid treatment of such directorial is makes suprassephyteal sociation in the suddless and opens the bladder as the directicultum is more easily supracted from the surrounding transes with their unroduced into it. I called for right is this could be too seems to be subset outside for right as this could policate no both index it in earlier and remove out, he incises the is perturphed and right streng sphilacter on both index it in earlier and remove out the lower portion t one case he should good result from more directivalism, he reserve t see implaints t it another at it is the bladder I care of directrication of the bladder associated in hypertrophy of the prostate he operates in several stages. If the diverticulum cannot be freed from its adhesions, he fixes it to the abdominal wall and drains it externally after dissecting its neck from the bladder and closing the opening in the bladder. The diverticulum then becomes gradually obliter ated. When this procedure is impossible, removal of the mucosa with a sharp spoon or curette is considered sufficient.

Von Rihmer's conclusions with regard to the surgical treatment of diverticula of the bladder is

summarized as follows

When the diagnostic measures described have established the presence of a diverticulum which is due to obstruction in the urinary tract but empties simultaneously with the bladder, it is sufficient to remove the obstruction. In cases of retention diverticula with or without obstruction, the extra peritoneal operation with removal of any obstruction should be done in one or two stages, depending upon the development of infection and the patient scondition (Colmers) Leo A Junner, M D

Marion, G, and Kogan, B Incrusted Cystitis (La cystite incrust(e) Presse med, Par 1934 xcii

The authors describe incrusted cystitis, a condition first reported by Fenwick, as a true infiltration of the mucous membrane and submucous tissue of the urinary bladder by calcareous deposits. It can be readily distinguished from the common calcareous deposits seen on the bladder mucosa in cystitis of long duration and from those which are often observed on the surface of an ulceration of the bladder

As a rule the onset of incrusted cystitis cannot be determined clinically. While the incrustations usually appear suddenly as a complication of chronic cystitis, they sometimes form rapidly in the course of acute cystitis. They may occur also in association with a tuberculous cystitis which fails to clear up after nephrectomy or may be found when new symptoms develop after an intravesical operation. Ur gency and frequency may be extreme, and pain, especially at the end of micturition, is common. The two chief signs of the condition are a terminal hæmaturia with clotted blood and the expulsion of calcareous concretions.

The diagnosis can always be made on cystoscopic examination. Besides more or less extensive and marked reddening of the mucosa, ædema, and areas of hæmorrhage, there are found the characteristic and more or less striking plaques. These plaques are in general white, but in some areas may be gray or even black. Their surface is irregular rather than flat like that of the leucoplakic plaque. They present a granulated appearance. They are usually multiple. Frequently they appear almost confluent, but as a rule are separated by areas of red mucosa.

Histologically, the lesions show three distinct zones—a superficial zone with epithelial desquamation, ulceration, and incrustations of calcium phosphate, a submucous zone showing marked infiltration

with small lymphocytes and polymorphonuclears, marked vascular engorgement, and bacteria, and a muscular zone intact or completely sclerosed

The treatment indicated depends upon the degree of involvement. In mild cases the instillation of silver nitrate may be beneficial. In more severe cases the best results have been obtained from curettement. In the female curettement may be accomplished transurethrally after dilatation of the urethra, but in the male the lesions must be attacked suprapubically.

WILLIAM C. BECK, M. D.

Watson, E. M. Complete Rupture of the Urethra A Method of Repair in Delayed Cases J. Urol, 1935, 33 64

The author reports a method to restore to satisfactory function the completely severed deep urethra after its repair has been unnecessarily delayed

When the urologist first sees a case of rupture of the urethra in which repair has been delayed, marked fibrosis has usually taken place about the space between the prostatic urethra and the severed bulbomembranous portion. The end of the urethra is often retracted, entirely occluded, and drawn either lateralward or upward from its normal path. Pockets of infection may persist, sometimes with a sinus leading to the suprapubic region, the groin, the perineum, or the perirectal spaces, and the diverted urinary path has become a hardened fistulous tract

Watson reports three cases in which operation

was performed as follows

After suitable skin and genital sterilization, the patient was placed in the exaggerated lithotomy position and a sound gently introduced into the urethra as far as it would go An inverted U incision was then made in the perineum, the levatores ani were pushed back, and the transversus penner was brought forward The central tendon of the penneum was cut across and the antenor end of the urethra located The latter was freed up to its distal point, care being taken to preserve as much of the urethra as possible The rectum was pushed back, the end of the prostate identified, and the hardened scar tissue about the prostatic opening or about the urethra excised A No 28 catheter was then introduced through the urethra, across the wound, and into the bladder When the freed end of the anterior urethra was pulled down as far as possible toward the prostatic portion, there still remained an unbridged portion of about 11/2 in At this point, two flaps were cut, one from either side of the anterior urethra With maintenance of a base attachment to the antenor urethra, the freed flaps were rotated, their distal ends sutured to the prostatic urethra, and three submucosal supporting sutures placed around the flaps, the catheter being used as a splint The periurethral tissue was then built up around the anastomosed portion, the levatores am were brought together, and the skin and subcutaneous tissue closed around an oil-silk drain carned down to the periurethral layer and brought out at the lower angle of the wound

In both cases a satisfactory choical recovery resulted. The price became free from infection and unlastion became normal. In one case, there was a moderate stricture. Figure Hoss, M.D.

#### GENITAL ORGANS

Young, H. H.: Prostatic Calcult. J. Drel. 934

This article is based on too cases of prostation cloud in the recruit of the Brary Undoded Institute, Baltimore The patients ranged in agreement the contract of celebra dies years, but the present anmber ere between fifty and fifty-size years. The calcular were associated with benega adenous of the postatie in sy, cases, with chronic prestation in 50, they were found following the formation of protection becomes and in 5 in the provable of protection becomes and in 5 in the provable contract the cases of the contract of the cases of

Young divides prostatic calculi late those of the endogenous type and those of the exogenous type The former are formed within the substance of the prostate whereas the latter are formed in divertacula. of the prostatic unathra or exter the prethra from the kidney wreter or bladder. The endorenous calcub are the more interesting because of the difficulty in explaining their origin and location and their relationship to other pathological conditions of the prostate such as hypertrophy carcinoms, in-fections, and shacesses. Young divides endogenous calcub into the following 4 groups ( ) those assoclated with prostatitis, (s) those associated avpertrooby (a) those suggesting carcinosia, and (4) those occurring in both the prostate and the arinary tract. He reports illustrative cases of each of these types and of the exogenous type

Of the reversed cases of calcular associated the protestitis, a bistory of genomics as as given in 54 per cent. The prostatitic symptoms developed soon after the prostorious intertion. However, I comparate that calcular often follows a posonthust inference to the calcular of the solid symptoms for many restra. Is of the ten without symptoms for many restra. Is of the linear instances the calcular cross the wretten in rare instances the calcular cross the wretten success and are passed with the same or results within the prostation errors. Obstractions to ethics calcular the calcular calcular than occurried in 5 per cent of the reverse of calcular sith protestifitis. Sermal powers are supplied with the protestifitis. Sermal powers are supplied with the protestifities. It at it, by the geneence of protestic experiences of protestic calcular services and the protestific services of the protestific services of the protestific services of the protestion of the protestic calcular services are supplied to the protestic calcular services of the protestic calculations are serviced as a service of the protestic calculations are serviced as a service of the protestic calculations are serviced as a service calculation of the protestic calculations are serviced as a service calculation of the protestic calculations are serviced as a service calculation of the protestic calculations are serviced as a service calculation of the protestic calculation of the protestic calculations are serviced as a service calculation of the protestic calculati

The diagnoses of the presence of calcul, with prostatitle is usually made by X-ray azendration is only a small percentage of the review of case were the calcul revealed by creptus when pressure was usade on the rootsta! It the finger

The treatment is the reviewed cases of calculassociated with prostatitie vaned greatly. I many cases in which the prostate is alled with small calculi the patient is quit comfortable. When the calcult cause irritation, borring, pair, hereatrie, deficulty and frequency of minstion, narried and obstruction, and back-pressure, the satilor has marked their removal. He state that the punch operation and transverthral resection are not to be reconstructed. He shall be a supported to the state of the state without period pressure that operation is recovered of the stones without operation of the cross-rate of the stones without operation is recovered to the stones without operation of the cross-rate of the stones without operation of the cross-rate of the stones of the stone of the stones of the stone of the stones of the stone of the sto

In cases of prostate calcult associated hit prostate hypertrophy the calcult are found shoot levariably outside the hypertrophical blost, generally that the flavour caparale of the lobes and expanie then the non hypertrophical prostate; fissee around a Young believes that the calcult forms in the actio of dects of the normal prostatic tiense that is being compressed just outside the growing advancantes lobe. He states that each stones are removed better by the permeal roots: Carero B Houses, M.D.

Gordon-Taylor G. Multiple Fibromata of the Tunica Vaginalia. Bril | Urel 954, 6 250

The case reported was that of a san forty two years of ps who consulted the author betases of a firm, paniess swelling of an unperfectly decreased in the part of the property of the property

There was no history of veneral discret and the Wassermann reaction was negative. The disgress of a multiplicat growth of an undescended testich was made and operation advaned. At the present time, more than ten years after the operation, the

patient in in perfect health.

The pathological report aboves that the tests and traces, we peaks formed a firm mass measuring. In 15th by 1 in On section, the partied layer at testines was founded to be greatly their third previously. The lance services of both layers aboved particulated fibrous modules up to 15th in the service The body of the testin supported beatly and free from fibrous. On necroscopic commissions the fibrillation was founded by the testine supported fibrillation was founded from fibrous was founded to offence of the services was found orderloss of checkened themse was found orderloss of checkened fibrillations was found orderloss of checkened fibrillations and the services of the service

fibrous tissue These findings suggested a longstanding chronic inflammation of the tunica vag-

The author therefore diagnosed the condition as multiple fibromata of the tunica vaginalis, a benign lesion. This diagnosis could be made only by microscopic examination of the removed organ.

ELMER HESS, M D

#### MISCELLANEOUS

Decker, P Urinary Colibacillosis (Colibacillose urinare) Rev med de la Suisse Rom, 1934, P 1063

After forty years of study it still remains to be determined whether infection of the urinary tract takes place by the ascending or the hæmatogenous route.

The theory that pyelitis is a hæmatogenous infection dates from the work of Albarran in 1889. In 1894, Escherich concluded that the infection was ascending because of the greater frequency of pyelonephritis in female infants than in male infants, but in 1905 Cathala claimed that he had demonstrated the intermediate stage of the hæmatogenous mode of invasion by means of blood cultures

In the course of subsequent studies no investigator has demonstrated with certainty that a septicamic state precedes the infection of the urinary tract. In the majority of cases the urinary infection is present first and the blood invasion appears to be secondary

According to the evidence obtained from blood cultures, the work of Heitz-Boyer represents no advance over that of Cathala in 1905. Of the other proofs of a silent blood invasion, cures of colibaciluma by treatment of the intestine seem most important, but in the author's opinion the cases cited are not convincing

With regard to the evidence offered by intermittent bacilluma in patients suffering from intestinal stasis due to various causes, the author's studies are essentially negative. Of 200 such patients, only 6 presented a bacilluma which could not be accounted for by the presence of a focus of infection

Decker maintains that the metastasis of infection from a focus in the tissues and the metastasis of infection from the intestinal lumen are not at all analogous, and to date there is no convincing evidence, either direct or indirect, that the latter occurs Besides ascending the urinary tract, the infection might spread by the lymphatic route quite as well as by the hæmatogenous route.

The treatment of colon bacillus infections of the urinary tract is discussed in detail. Of the long used standard procedures—the administration of antiseptics by mouth, treatment to change the composition of the urine, disinfection by the direct introduction of antiseptics into the urinary tract, and immunological methods, the author seems to have confidence in only the first three. He regards Besredha's antivirus and the bacteriophage as of doubtful value.

ALBERT F DEGROAT, M D

activity Moreover its blood supply is inadequate Hence, the alightest Taxonotor disturbance may send to necrost, particularly during the age of

This theory agrees with the general view that trauma is t be ruled out as the direct cause of the traums at the stone our as the output table of the coordina. However, there is probably also involved conducts. Moreover there is proventy any investor individual predisposition, the result of preceding outcomedities at the time of ossification which any control and the control of the carry period has remained latent or has healed, leaving the bone in a markedly weakened condition RECKARD E. SORKA, M.D.

Koch, S. I., Dissbillities of the Hand, J Am 11

Koch says that hen once joint fination has taken place, some form of active treatment must be under taken to permit movement. Four methods are availthat to permit savetness, four metados are avairable. (1) splinting and physical therapy. (2) manip. nlation, (g) extra-articula operations, and (4) intra

If absolute fixation at the joints has not occurred, considerable improvement can often be obtained by splinting and federiously applied physical therapy spanning and removably splace payment underly. In the application of splints the a thor prefers the an use apparature in square trace and process are of classic tension maintained for six, eight, or ten bours of the twenty four The tensors should be nours or the county tout and transmit account to released a hen t begans to came pain Splitts should be of a type that can be oasily applied to the hand

ou exact removed.

Better results all be obtained if, in the beginning of the treatment, the splint can be completely to or one treatment, the spaint can be comparing in-moved to permit the me of contrast boths, the application of heat, and active and passive move-

apparation or non-The attempt to secure movement in aid founts by manipulation under anguiteens has often resulted meniposition in increased stoffaces rather than increased mobility

Manipulation is of value in cases in which adde and have not completely prevented movement the part should be moved the affected year the part second or source r the anerted joint once or t for through its complete range of motion If the hand and forcarm are then immobilised for teenty four hours and active and pessure movement is begun promptl afterward, definits improvement

In 1930 Shaw emphasized that if the fingers are Lept immobilized in extension, shortening of the colliteral hyamests of the metacarpophalangual and interphalangeal joints occurs and that this aborten ing constitutes an important factor in the stiffness of the extended fingers and their remaining to more of the extended angers and their researches; more ments of flation. If above ed, furthermore that if the ligaments are carefull detached from their origin on the head of the netacarpal bone a definite degree of restoration of fersion can be obtained and this can be preserved by the kelp of spiratus and physical therapy. The author states that he has obtained excellent results by Sha operation in

Fixation of the fingers in flexion at the inter phangeal joints is usuall complexited by flexion

contracture of the supersicial theses and fination of the figure tendons by sear times due to the original injury Contraction of the joset capanie and the accessory harments also plays an important part is

The author credits Silver with emphasizing the important role played by contraction of the load capitale in this type of contractors and describing as calente in two type is comment appearanced searation of the joint capsule, usually on the side of the convex or condular argment of the joint.

arret or coornar segment or the pour.

Loch has ened Silver's procedure in five cases and considers it designify superior to violent reptate of the capsule by blant desertion H states that h cases with shortening of the colluteral bismessia there with anothering or the consistent against a recurrence of the ferson deformity will take place endess the proximal attachment is divided or freed In the treatment of joints which have become anky losed as the result of injection or injury some

encyment as the status or inscrine or some form of lotts articular operation is necessary The author cuphasites several details which are of importance in attempts to accure movement at the a rist Joint in cases of bony losion Those are (1) exposure of the joint by two lateral inchions. (a) exponents on the fount by two interest measures, one on the latter and one on the uniar and, to pre-adequate access to the entire joint area. Ith minimal fraction on, and traums to ertensor tendoss (2) the removal of emiscient bone to insure an adequate joint space which at times means removal of port load of cribel pones (1) spabled of the onfour of the newly formed joint serfaces so that the tour or the heavily normers from antiacter so that may reaemble as nearly as possible those of the normal joint and (4) the securing of smooth bone margine so as to avoid leaving overhanging edges of lone which might produpose to new formation of losse and superficient interference any treatment or re-

While the results from this type of operation have been far from perfect, definite improvement has bem obtained in considerable number of cases Koch beheres that with greater care is operating procedure and more persistent efforts to sector active movements following operation, the results

NORM C B LLOCK M D Guents, F. The Diseases of the Intervertebral dries, to the Principles of the International Johns (Des Ertradungen der Zwischen übeige-lenk) Arch f orthop Chr. 934-34-333

The author examined opposably the articular capsules are gents to the microvertebral points of the microvertebral points are gents. large annaber of spines riscular cavities are spaceous, and the mobilit of the desected joint is considerable. However, the conts are securely locked by the ingramms and the firm senon of the criebral bodies through the inter rettebral disks. The position of the joints a different in different parts of the criteral oleme, reaging from 45 degrees to searl vertical

When the normal stabilit of the vertebre becomes reduced, displacements in the vertebral joints occur quickly as the harmenium faven has tradeacy to compress the individual vertebra

against each other. As the capsular ligaments are unusually tight, their incomplete division when the joint is opened is more apt to be followed by the breaking off of an articular process than by rupture of the capsular joint. The articular surfaces consist of smooth, hyaline articular cartilage which in certain vertebre may vary in size on the two sides. The thickness of the cartilage presents considerable variations even under normal conditions.

As a rule no pathological deviations are to be observed up to the age of thirty years. Thereafter, changes which are sometimes marked become continuously more frequent. These consist of progressive destruction up to complete bony rigidity. In the mildest grides there is a definite dryness of the articular cartilage due to absence of fluid in the joint. Defects and proliferations are still absent in this stage.

In contrast are the changes in which there is an increase of fluid in the joint and the cartilage appears swollen. Not infrequently there is a partial vellow

discoloration of the cartilage

From these initial changes arise all transitions to complete destruction of the articular cartilage. In one and the same individual both normal joints and those showing the most marked changes may be found. In the cases reviewed no relationship to other diseases of the individual could be demon strated according to the detailed autopsy protocols On the other hand, the changes were entirely differ ent from those occurring in early spondylarthritis anky lopoietica The most severe changes were found especially often in the thoracic portion of the vertebral column and occurred predominantly on the right side. In the author's opinion this is explained largely by the fact that the third to the fifth thoracic vertebre show the least mobility

A relationship of diseases of the vertebral joints to changes in the intervertebral disks could not be demonstrated. Neither was it possible to demonstrate a definite relationship to existing kyphoses or

compensatory lumbar lordosis

On the other hand, 8 scoloses examined showed striking unilateral changes in the vertebral joints on the concave side, 2 showed unilateral changes on the convex side, and I showed bilateral changes. In spite of the relatively small amount of material, the author suggests that in certain types of scolosis the cause is unilateral disease of the small vertebral joints

A review of the macerated specimens showed that in spondylitis at the site of the gibbus the small joints were completely ankylosed and the neighboring joints presented marginal exostoses. In cases of fracture the changes in the small vertebral joints paralleled those in the vertebral bodies. On the other hand, in cases of even severe spondylarthritis deformans the small vertebral bodies showed no striking changes. In Bechterew's disease, of which the author had the opportunity to examine a fresh case, there is no degenerative reaction but a typical arthritis with round cell infiltration, hyperæmia,

connective tissue proliferations, and ultimate healing by ossification. Not rarely, other joints show a polyarthritis ankylopoietica of the Ziegler type.

In conclusion the author calls attention to the disease picture of pseudo spondylolisthesis described by Junghans. In this condition also the intervertebral joints at the site of involvement exhibit marked changes. (Decs) I out Nelwelt, M D

Zadek, I Congenital Coxa Vara Arch Surg, 1935, 30 62

Ladek reviews the history of congenital cova vara and the various theories regarding it back as far as the theory advanced by Fiorani in 1881. He states that the cause of the condition is unknown and the microscopic picture is not characteristic. In the examination of a removed section including portions of the articular cartilage and the neck of the femur he found degenerative changes in the deeper layers of the cartilage with areas suggestive of mucinous degeneration and tiny intracartilaginous cysts formed apparently as the result of liquefaction of the cartilage. The subchondral bone was compact, there being widespread subchondral osteo sclerosis which extended through the entire capital epiphysis.

The striking signs of the condition in childhood are deformity and a painless limp. The gait may easily be confused with that of congenital dislocation of the hip, but the roentgen appearance is pathognomonic. The obvious change is a depression of the neck of the femur. Closer examination suggests a loss of substance in the neck which, to the inexperienced, may suggest a fracture with non-union. The greater trochanter is elevated, and in the older cases becomes much elongated and assumes a "beaked"

appearance

In the author's opinion the treatment should in clude drilling of the neck of the femur to open up a new blood supply and thereby stimulate ossification Either at the same time or later a wedge osteotomy of the subtrochanteric type should be done to correct the angle of the neck

Ten successfully treated cases are reported ROBERT C LOVERGIN, M D

Logròscino, D Tuberculosis of the Neck of the Femur (La tuberculosi del collo del femore)
Chir d organi di movimento, 1034, 19 295

The author classifies tuberculous lesions of the neck of the femur on the basis of the local arterial supply and distinguishes four main foci of infection

Foci derived from the inferior cervicodiaphyseal arch include those which are located immediately above the lesser trochanter and extend a few centimeters below the extreme limit of the inferior cervical arch. These foci probably arise from emboli which have been caught in the initial course of the vessel. This lesion occurs most frequently and its clinical course is apt to be severe.

Roentgenologically the bone has an evanescent appearance and the lesion assumes a semilunar

# SURGERY OF THE BONES JOINTS MUSCLES TENDONS

Young, A. G., and MacMabon, H. E. Chronic One, A. L., and Americanove, it. a. Correction Problems of Problems of Patients with Rhouse Intelligence of Page 5 June 5

The relationship between acute rheumatic poly Ame tentralism occurred acute renumate pour arthriffs and chronic prohiferative arthriffs has long attitude and customer promotestive attitude ness and been a subject of conflorery Gioco Heberden Is occa a suspens or communicacy care occurrence as 170 and maybeath in 003 mas immercanastes are theories them from chronic themes them, clinicians neumann non taront recomment, comments, bere been divided into the achoris-those who nate teen organic unto in schools-take was believe that the two conditions are entirely separate ocheve that the two consider them different manifests

our or the same process.

The authors maintain that there is no justifiable. reason chinical or pathological, for the adoption of remain, comman or paramagness, are the anopular such extreme viewpoints. Each combition may such activation viewpoints cause construction only occur alone and absolutely independently of the other where as a certain case that seems t be a outs success as a testion time some some to be a definite sequential elationship between the f o conditions

The uthors summarise ten of thirty collected cases and report two cases In every case the condition began as acute

in twiny case one common separa as assume throught polyarihiths and, as a because chrome, The ago at the time of the first track ranged Also ago at the time or the sink time, languaged from eight to forty-five years and the duration of from mean to covery the press and the observation of Of the fem patients whose cases are automatized to rears. one had mirel stemes when they were admitted to the hospital The (enth was freshed shortly to the possess and recovered athout sustaining valvalar damage

Ande from the cardiac findings, there chaired agas or symptoms to distinguish the condution from acute or chronic (non rheumatic) infec tion from sense to carrone (non recumace) more thouse or rheuma tool arthritis. The room genographic tand or immunities accepting were of no value in the

Investigators studying theumatic fever have at interesting accounting manners and a manner of the control of the outerns ones oues vos vanous teace (secures-nature) large subcutaneous aceleta, microscope, nodules of the myocardum and lone (secure about nounce to the myocarmam and some tasses about the contra problem try changes of the endocardian of the synoya and lenous of blood venets— inch they have regarded as characteristic of if not specific for, rheumatic infection

Fabr maintains that Aschoff' nodule is a specific Fast transference into Assistant must be a source product characteristic of the disease, and that its presence alone is subcreant t justify the diagnosis of

In the cases presented b the authors the occur terror of the joint cheeses was so closely associated with the omet and progress of the rheumatic favor

as a reader it obvious that the arthritis was part as ( image) it corners that the attention was performed form. Moreover the folial affected or the involved by infectious (non rheumatic) arthritia.

name.

In conclusion the authors state that the differen-In concusson the authors make that the concustifation between cases of rheumatic ferrer with polytation privers case of themselve ever was pay artifaction and chronic productions arthritis (non-rheumatic) is a problem for the artimizes (massinguages) is a promein ser too children. In the light of present knowledge, the carded finding are the circl determining littless Histological study of these from knoos that here definitely healed or have become chronic and proonnextry powers or more recovery contract and proareas we design the second of the second of the characteristic subcritished on the cha nodnica a differential diagnosis has not been proved

# Swim, L.T. Orthopodic and Physical Therapretic Trustment of Chronic Arthritis. J. Au. M.

The orthopodic treatment of chronic arthretic should be began at the very onset of the arthrub and curried out in close relationship to the medical

There are three objectives in the treatment of choose artistis (2) to control and stop the there, ( ) to prevent deformity and (5) to restore the patient to be normal life as functionally capable u pombl-

Arthritis is always coositistical disease The continuous is always constitutional obsessed in fact inflammation is only symptom. The last regulating apparatus and the circulation are deturbed, the vasomotor control is anniable, the blood presents in low the band metabolic rat is often schnormal and the function of the patro-latestial tract is defective. There is all gra-Anemia Not infrorpositly correction of posters by Principle Corrective Errors, rest, and corrective symmetric territorive entrune, ica, and consumer portions if remedy many of the functional postoger in rancy many or toe rancaman physiological failure. The treatment of every one of arthitis should begin with rest positions in bad The author describes the various rest positions that may be used

while the patient is in bed heat may be paked ty hot air being steam beths, dathoray morand trachetton, or ann lamp

Edorts to prevent deformities should be instituted early in the change Almost every defountly in articles of the change Almost every defountly in the atheren early in the transact received action of a community of the state of the community of the c the case of supporting plaster spinits for penods of not more than forty-eight bours. In his cases the planter and is breaked and the joint is moved hittle such day. Gradually the time of carries is

nices sice my organization was a successful and the period of rest shortened Deformities that have already occurred may be corrected by various methods. Joint that have begun to flex can often be strughtened by plaster spints re applied every day or two or by the use of corrective splints such as the Thomas caliper splint for the knee, banjo splints for the hand, cock-up splints for the wrist, and the airplane splint for the shoulder. In cases in which correction cannot be obtained by such means, manipulation of the joints may be done under anesthesia and, if this fails, by open operation after the process has become quiescent. The results of operation are improved by a month or two of pre operative physical therapy and exercise.

NORMAN C. Bullock, M. D.

Rahm, II Predisposition in Osteochondritis Dissecans of the Capitellum Humeri (Zur Frage der Disposition bei der Osteochondritis dissecans Capituli humeri) Zentralbi f Chir, 1034, p 2263

Trauma is coming to be regarded more and more as playing only an occasional rôle in the development of osteochondritis dissecans. Recently Nielsen attempted to determine the importance of heredity in this disease. According to his large series of investigations the general incidence of the condition is 41 per cent, whereas the follow up of 191 un selected relatives of patients suffering from the condition revealed an incidence 4 times as high. There fore this disease must be included in constitutional pathology.

The author presents the histories and roent-genograms of 4 male members of a family who were affected with osteochondritis dissecans of the capitellum of the humerus. In all of these subjects the condition began at the age of puberty, between the fourteenth and sixteenth years of life. All of the subjects were of the stocky type. Two other males of the family were similarly diseased but could not be examined. The fact that the disease began at the time of puberty, when the condition of the open epiphyseal lines of the skeletal portions forming the elbow joint undergoes transition into that of synostosis, suggests that the cause is a defect in this process due to a constitutional-endocrine factor. Hereditary constitutional factors are undoubtedly of fundamental importance.

The first of the cases reported was that of a farmer twenty-five years of age who had been unable to extend his elbow since his fifteenth year. He was of the short, stocky type with powerful muscles. The blood picture was normal. The blood belonged to Group of The roentgenograms showed a severely deforming osteo-arthritis in both elbows involving especially the capitellum of the humerus but also the capitellum of the radius and the ulna.

The second case was that of brother of the first patient who was seven years older than the latter. The patient stated that the condition began when he was fourteen years old. He was of a stocky type like his brother. He had a high changing voice. His blood belonged to Group of The clinical and roent-gen findings in both elbows were similar to those in the first case.

The third case was that of an uncle (brother of the mother) of the two other patients. This patient was forty eight years old, 154 cm high, and of athletic build. His blood belonged to Group o. The disease began in the right elbow in the sixteenth year of life. The changes in both joints were similar to those in Cases 1 and 2.

The fourth case was that of the son of the third patient, who was thirteen years, 140 cm high, and of the same body build as his father. There was limitation of motion in both elbow joints. Roentgen examination showed closure of the epiphyseal line of the right humerus, distinct osteitis at the typical site in the capitellum of the humerus, subchondral clear areas, and beginning changes in the capitellum of the radius. In the left arm the epiphyses were still distinct and no pathological changes were as yet demonstrable.

(WORTHANN) LOUIS NEUWELT, M D

Mollo, L Necrosis of the Semilunar Bone of the Wrist (La necrosi dell'osso semilunare del carpo)
Chir d organi di movimento, 1034, 19 343

The author reports a case of Kienboeck's disease in a nineteen-vear-old girl who was unable to recall any trauma to the wrist. After removal of the bone and a period of immobilization, recovery resulted uneventfully and function was completely restored Bacteriological cultures were negative.

On microscopic examination of the bone the deeper and more diffuse lesions were found to involve the central portions, in which most of the trabeculae were atrophic, often fragmented, and arranged in a disorderly fishion with complete obliteration of the lamellar structure

Osteocytes were practically absent in this area whereas they seemed to be rather well preserved at the periphery. The articular cartilage was interrupted in some places, particularly where the bone had undergone retrogressive changes.

The most important changes involved the bone marrow. Among these were connective tissue proliferation with subsequent sclerosis and a tendency toward osseous metaplasia. In other portions there was a homogeneous substance which assumed the form of blocks or granules of a brownish-yellow color suggesting the deposition of hæmosiderin. This deposition of pigment was found also in the region between bone and cartilage. No inflammatory or vascular changes were observed.

Taken as a whole, the lesions consisted of necrotic areas of the central portion of the bone which in all probability were the result of some kind of circulatory disturbance. This assumption appears plausible because of the deposition of blood pigment in the medullary areas although there was no histological evidence to support it. The cartilaginous erosions were probably secondary to the central necrosis

With regard to the pathogenesis of the condition, the author states that the semilunar bone is exposed to considerable physiological strain augmented by repeated traumatism resulting from ordinary manual

activity Moreover its blood supply is inadequate. Hence, the slightest Taxonotor disturbance may

lead to necross, particularly during the growth when the blood demand is increased. This theory agrees with the general view that traums is to be roled out as the direct cause of the condition. However there is probably sho involved

an individual prediaposation, the result of a preced-ing osteochondrills at the time of ossification which in this carly period has remained latent or has healed leaving the bone in a markedly accelered

Koch & L. Disabilities of the Hand, J Am 10

Koch says that when once joint freation has taken place some form of active freelinest must be under taken to permit movement. Four methods are availtaken to permit movement is our methods are available (1) spainting and physical therapy (1) manipulation, (1) extra articular operations, and (4) intraarticular operations.

If absolute fixation at the joints has not occurred. considerable improvement can often be obtained by consucration improvement has tried to remained and picticlosily applied physical therapy spenning and potentially appears to the prefers the to use approximation of the state of the sta one or manusc terminal manuscripes for mr. cigar or ten hours of the facility four. The tension should be nciesed when it begins to cause pain Sphats should be of a to pe that can be easily posed to the hand and easily removed

at easily removed.

Better results will be obtained if in the beginning of the treatment, the spirst can be completely in no me training the space can be companied to permit the use of contrast boths, the application | heat, and act e and passive move

syntaction and substitution of tension The attempt to secure movement in the founts by manipulation ander aggrathens has often resulted manupusation super management use over resource a increased suffices rather than increased mobility Manipulation is of value in cases in which adde signification is or various in teach in susai association bave not completely prevented movement

nous mare not compared personnel movement.

The part should be moved at the affected joint outs of it for thiough its comblete tapits of moreon house but makes among the means are one amorated house If the hand and forestm are then immobilized for at the many four hours and active and pensire movement h begun promptly afterward, definits improvement

1930 Shaw corphanaed that if the forgers are Lept immobilized in extension, shortening of the App. innavances to exceeding between and (gretchygratical louits occurs and that the spootening constitute as important factor in the suffices ing countries an important resistance to more or the executed suggests and their resonance to move ments of flerion. He showed, furthermore, that if ments or second are assumed, instructioner, tast is the against are careful detached from their origin on the head of the metacarpal bone, definite degree of restoration of fexion cas be obtained ad this can be preserved by the help of splanting and physical therapy. The thor states that he has obtained excellent results by She

Fination of the dogers in fersion t the inter byrotical locate to complete on the control of the

contracture of the superficial tissues and fixation of the Sezor (cradees by sear there due to the organi industry. Contraction of the folat capacite and the anyone Beaments also play an important part in

The author credits Silver with emphasizing the inportant role played by contraction of the total capeals in the type of contracture and describes as effects a method of treatment—subperiorial separations and the contracture and describes as a second contracture and the contracture are provided to the contracture and the contracture are contractured to the contracture and the contractured to the contracture and the contractured to the contractu ration of the joint capsule, usually on the act of the ration or the past topeus, ascent on the fourt.

sorte or company regiment or one pour.

Noch has the differed Proceeding in five cases and

Administration of recording to record the process and considers it definitely superior to violent repture of the capsule by blant direction. He states that a cases with abortening of the collateral Epiments. recurrence of the fiction deformity will take place

uniess the proximal attachment is divided or freed ness the protections and another than the broness in the breatherst of loints which have broness and the treatment of parts since save orthogonals, and so infertion or injury some form of intra-articular operation is necessary

The suther companies acress details which are of importance in tempts to accure novement t the west joint in cases of bony fusion. There are (1) exposure of the joint by two lateral inchioes, (1) exposure or the past by two fatiral manages on the radial and one on the ulner side, to gh adequate acress to the entire joint area with minant traction on, and traums to externor tradage () the removal of sufficient bone to insure as addquate joint space, a high at times means removal of

porty ton of cribel poord (1) sysball of the confour of the newly formed joint surfaces so that ther tout or the occup stermen point annates so that there remains as Beauty as possible those of the second point and (4) the accuracy ( smooth bone margon so as to said jeaving constantial sides of jose which might prechapose to new formation of bose and subsequent interference ith freedom of more

While the results from this type of operation have What the results from this type of operation save been far from perfect, definite improvement but been obtained in a considerable number of cases Lock befores that with greater care in opensh procedure and more persistent efforts to secure active povements following operation, the media MORES C BULLOCK, M D

Greats, E. The Discusse of the I terrepotent Joints (Die Erlenstauere der Z mehres deige-lenste) Arch / mehrs Chr. 34, 34, 31, 311

The a thor examined a large number of spines especially a th regard ( the intervertebral justice especially a to report t the mice received the articular capacita are quite wide, the sustains the statement caleman and dusts away to the dissected joints as considerable. However, the souls are securely locked by the ligaments and the posses are accessed where the second of the vertebral bother through the letter rerichal daks. The position of the joint is different in different parts of the vertebral colema, reaght from 45 degrees to pearly errical

Il hen the normal stability of the vertebre becomes reduced displacements in the vertebral joints occur quickly as the figuresian favors has a tendency to compress the individual entitive

against each other As the capsular ligaments are unusually tight, their incomplete division when the joint is opened is more apt to be followed by the breaking off of an articular process than by rupture of the capsular joint. The articular surfaces consist of smooth, hyaline articular cartilage which in certain vertebre may vary in size on the two sides The thickness of the cartilage presents considerable variations even under normal conditions

As a rule no pathological deviations are to be observed up to the age of thirty years. Thereafter, changes which are sometimes marked become continuously, more frequent These consist of pro gressive destruction up to complete bony rigidity In the mildest grades there is a definite dry ness of the articular cartilage due to absence of fluid in the joint. Defects and proliferations are still absent in

In contrast are the changes in which there is an increase of fluid in the joint and the cartilage appears swollen Not infrequently there is a partial vellow discoloration of the cartilage

From these initial changes arise all transitions to complete destruction of the articular cartilage In one and the same individual both normal joints and those showing the most marked changes may be found. In the cases reviewed no relationship to other diseases of the individual could be demon strated according to the detailed autops, protocols On the other hand, the changes were entirely differ ent from those occurring in early spondylarthntis found especially often in the thoracic portion of the The most severe changes were vertebral column and occurred predominantly on the nght side In the author's opinion this is ex planed largely by the fact that the third to the fifth thoracic vertebry show the least mobility

A relationship of diseases of the vertebral joints to changes in the intervertebral disks could not be demonstrated Neither was it possible to demon strate a definite relationship to existing Lyphoses or compensatory lumbar lordosis

On the other hand, 8 scoloses examined showed striking unilateral changes in the vertebral joints on the concave side, 2 showed unilateral changes on the convex side, and I showed bilateral changes In Spite of the relatively small amount of material the author suggests that in certain tipes of scoliosis the cause is unilateral disease of the small vertebral

A review of the macerated specimens showed that in spondy hits at the site of the gibbus the small Joints were completely anky losed and the neighboring Joints presented marginal exostoses in cases of fracture the changes in the small vertebral joints paralleled those in the vertebral bodies other hand, in cases of even severe spondy larthritis deformans the small vertebral bodies showed no striking changes In Bechterew's disease, of which the author had the opportunity to examine a fresh case, there is no degenerative reaction but a typical arthritis with round-cell infiltration, hyperæmia,

connective tissue proliferations, and ultimate healing by ossification Not rarely, other joints show a polyarthritis ankylopoietica of the Ziegler type

In conclusion the author calls attention to the disease picture of pseudo spondy lolisthesis described by Junghans. In this condition also the intervertebral joints at the site of involvement exhibit marked

(Dels) I ouis Neuwelt, M D Zadek, I Congenital Coxa Vara 1rc/ Surg., 1935 30 62

Zadek reviews the history of congenital cova vara and the various theories regarding it back as far as the theory advanced by Florant in 1881. He states that the cause of the condition is unknown and the microscopic picture is not characteristic In the examination of a removed section including portions of the articular cartilage and the neck of the femur he found degenerative changes in the deeper layers of the cartilage with areas suggestive of mucinous degeneration and tiny intracartilaginous Cysts formed apparently as the result of liquefaction of the cartilage The subchondral bone was compact, there being widespread subchondral osteo pact, there being widespread subchondral osteo sclerosis which extended through the entire capital

The striking signs of the condition in childhood are deformity and a painless limp The gait may easily deformity and a paintess map the gare may easily be confused with that of congenital dislocation of the hip, but the roentgen appearance is pathognomonic The obvious change is a depression of the neck of the femur Closer examination suggests a loss of substance in the neck which, to the inexperi enced, may suggest a fracture with non union. The greater trochanter is elevated, and in the older cases greater trochanter is elevated, and in the older cases becomes much clongated and assumes a "beaked"

In the author's opinion the treatment should in clude drilling of the neck of the femur to open up a new blood supply and thereby stimulate ossification Either at the same time or later a wedge osteotomy of the subtrochanteric type should be done to correct the angle of the neck Ten successfully treated cases are reported

ROBERT C LONERGAY, VI D Logroscino, D Femur (La tuberculosis of the Neck of the Tuberculosis of the Neck of the Chir d organi di movimento, 1934, 19 295

The author classifies tuberculous lesions of the neck of the femur on the basis of the local arterial

supply and distinguishes four main foci of infection For derived from the inferior cervicodiaphyseal arch include those which are located immediately above the lesser trochanter and extend a few centi meters below the extreme limit of the inferior cer-Vical arch These foci probably arise from emboli which have been caught in the initial course of the vessel. This lesion occurs most frequently and its clinical course is apt to be severe

Roentgenologically the bone has an evanescent appearance and the lesion assumes a semilunar

shape As the process approaches the bony cortex, alrephy and decaddination of the critic femine feminess and all the contract of the contract feminess and the contract of the become more pronounced with a resulting reduction in length and thickness. The formation of a sequen-

in length and thickness. The formation of a sequen-frum of necrosis is visible long before a line of demarcation has formed

The adjacent synorial membrane is at first little affected, but later the loan cavity is filled with a ancrees, but mer the some carry is most such a pecomes bringent Paratthilis is the mani out

roci la juntaposition to the epiphysis are derived from the superior convendisphysical arc. The from the superior transcriptory was a fall following three anatomical types, mentioned in descending order of fragmency can be differentiated

descending order of irreprincy can be uncereminated in Fig. 9 the space of the neck, which me in the terminal properties of the interference of th mediat tract of the next) which in the unter instant vact or too unter, wants, in the cause, serminal arteriole appropriate by an independent and

Training afternoise

3. Foci of the supero-external tract which are in the territory supplied by the corresponding arters the territory supposed by the corresponding array food in the furth-capthyreal tone have created the corresponding array physics thoughts peculiarities which differentiate them from the statement of the corresponding array and the corresponding arrays are consistent to the corresponding arrays and the corresponding arrays are consistent to the corresponding arrays are corresponding arrays are consistent to the corresponding arrays are consistent to th payang attacquias pecunanties when uncertainties them from other authorized types. As the entit of the action of correlating terms or distributes of the countries are also accomplished to the countries are also ac the action or Citerature curious or continuous to the circulation the intervening circulations plate becomes necrotte The entire bony argment is

percouse herium has some mony segment in Bullburnets physical fool occupy a territory which is securing benefits of the securing benefits of the securing applied by the terminal beaches of the spoorial vessels of the corrective terminal beaches of the spoorial vessels of the corrective terminal terminal beaches of the spoorial vessels of the corrective terminal terminal

Connectaints of this region are imperculous class Contacteration to temperature are concernment types.

Spech cysts. 18 located centrally in the bulber repon of the metaphysis and auromoded by a thick layer of the metajayas and auromaton by a man asymptotic of one out healthy there. They pures chronic chronic command may emerge considerably in the complete

Oscince on symposium.

The lesson is relatively benign and usually replaced by scar

Aletaphysoal subtrochanteric foci are located Alert payons superconnectors and are scattered to the first pate of the first pot seen the frester trochanter and the amount on which are desirably as and dasplying. They are semi-spherical and meanly spread foward the superior cervical con manager group toward the carridge and rarely invade the

some cases the carriage becomes necrotic the medius of the greater trochaster a destroyed, and fistale develops in the giutasi region As a rule this type of iction is beingn and remains extra-arthepler

The ricce contains many very featractive illus trations

Lagorgian, K. A. The Distincts of Managers In-formed by the bright party for Frag. de. Dagon Days of the Managers of the Property of the Party Days (the Managers of the Frag. 44) with party of the Property of the Frag. 1

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and the persurous as the conformation of the persurous as the persurous manical injuries in canonally spectrum cases at was possible also to make a chargonic of the type was positive and to make a disposes of the type and extent or the country which was not confirmed by the findings of arthrofomy For good results it is very important to rule the too good tracts in the very important to make in

too as thereby relatively free projection of the contact of the contact can be obtained. mercus parts or the memor can be obtained in better a touch and the eners of the opaque on the foint. Refore and after the taker tion of the opages substance be made a cytological cramination of the synovial fluid and determined its content of albumb. After the injection he deter ament is content in some in manner or case in the high operation was performed twenty four boun in a main operation as a performed in only but been following the fromtigner commention as excised a fortier of the following the following the microscopic study of the following the f

he discusses the interpretation of the focusions. Fruit, emphasizing particularly or me rocuspro-proper judgment of the lateral standards. This part proper programs or one started commercial can be a confided to illustrated with formigenegation and drawings

Colonia, F. C. Congenital Peroder three of the Lag. Three Cate Treated by Mante Son Grat. J As M 45 14 15 10, co. 202 Congenital pseudarthrous is a rather rare type of fracture. It is not merely fracture that fire to mits, but a parhological conclusor in a hone or hoose carring workness the subsequent fractor it is posterily most common in the boost of the

the Controlle chambed cases of congenital based ag commiss common cases or congenital para-arthresis into the following three groups () these in which the usual anterior deforming 4 present sets. on the control of the present of the typical present sustainties, and (3) those at himse or keeping break at himse or keep pony superince accompanied by married defectably near measure accompanies by market occasion.

Before the occurrence of fracture definite charges

nearly be observed in the bone. In this early phase there is anisative current of the leg. When there is not you occurs the deformity a likely to be increased. The most common type of case is one in which chemical in which chemical common type of case is one in which chemical case of the c bengariyasis is bessen is porp pours up 'cpa. Acteristic angular deformity of the lower third of the actionate anguser concernity or the source control or the The Wassermann Praction and the findings of

chemical study of the blood re acquire Following review of the various theories as to the cause of the condition, the thor expresses the opinion that the came is primarily local. H th Codystle and Henderson that the beare factors are probably finity entry once development and

congenital interference to the circulation Colonna reports three cases in which means bone grating was done ith soccessful bosy uses m two

The article is concluded with the following summary

r Congenital pseudarthrosis has been rarely re

ported in the American literature

2 Congenital pseudarthrosis of the leg appears to be due to a local rather than a general cause, and to occur usually in the lower third of the leg

3 Before the occurrence of fracture the bone or bones involved present the characteristic rountgeno graphic appearance of a cystic formation somewhat resembling localized osteits fibrosa cystica. The deformity is present at birth. I racture occurs either at or shortly after birth, and hardly ever heals spontaneously.

4 Operative treatment is not indicated before the age of eight years. The chances for successful results from operation increase with the age of the patient

5 The method of choice is the massive bone grafting technique employed in the three cases reported

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Haas, S. L. The Treatment of Permanent Paralysis of the Deltold Muscle J. Im. M. Ass. 1035-104

Permanent paralysis of the deltoid muscle causes a disabling deformity of the arm with resulting loss of the power of abduction. When conservative treatment for a year has failed, there still remains the possibility that function may be restored to some degree by surgical treatment The author reviews and comments on the several procedures which have been advocated, including arthrodesis and muscle transplantation, and reviews the factors which must be taken into consideration in the choice of operation. He emphasizes that in muscle transplantation the muscle to be transplanted must be strong enough to carry out the function of the muscle for which it is to be substituted. He believes that the muscle most satisfactory for transplantation is

Haas reviews thirty two cases of deltoid paralysis treated by muscle transplantation. In more than half of a series of thirty in which a trapezius fascia transposition was done a satisfactory functional result was obtained. The stronger the transposed muscle and accessory muscle the better was the result.

The operative technique used by Haas in his earlier cases is described as follows

An incision beginning well out on the spine of the scapula is made along the spine to the acromion process and then to the outer third of the clavicle. The insertion of the trapezius is freed from the spine of the scapula and clavicle, with care to avoid including the supraspinatus muscle. The trapezius is then mobilized so that it forms a tongue-like mass, care being taken to protect its main nerve and blood supply. A sufficiently long and wide strip of fascia lata removed from the thigh is then sutured

to the raised up trapezius muscle with heavy braided silk. A ditch is cut out of the spine of the scapula just back of the acromion process and the free end of the fiscia lata is passed through this ditch and over the apex of the shoulder in the subcutaneous fat to an incision made over the lower part of the paralyzed deltoid muscle. Through this second incision a rectangular piece of bone is removed from the humerus near the deltoid eminence through the second incision and the free end of the fiscia is brought down to, and passed through, this opening in the cortex and sutured to the surrounding periosteum.

The results following this type of operation were at first quite good, but after a time there was a decrease in the range of motion. It was found that where the fascia passed through the ditch prepared in the acromion process it often became adherent to the bone. When this occurred it was necessary to re-operate to free the fascial strip and surround it with a free fat graft. The re-operations demonstrated that direct union occurs between fascia and muscle and the Inscia lata resumes a tendonlike appearance. In the author's more recent operations the formation of the ditch in the spine of the scapula has been omitted. The fascia is now brought over the acromion process as a flat band and anchored in several places to the deltoid muscle or passed under the perimisium. The distal end is then passed under an elevated spicule of bone near the deltoid eminence and sutured to the sur rounding periosteum. The low insertion is of considerable advantage because of the added leverage obtained on the humerus

It was found also that after the muscle fascia operation, the results of which were at first quite satisfactory, a considerable loss of power occurred later because of a shift of the fascia transplant. The cause of the shift in the line of pull was usually a luxation of the humerus from the glenoid fossa. A careful check of the more recent cases showed that there is often an associated luxation of the shoulder in paralysis of the deltoid. This is not surprising as the strong deltoid muscle capping the shoulder joint belps to maintain the humerus in its normal apposition to the glenoid. If there has been a lack of adequate protection by a brace there is further stretching of the capsule which predisposes to dis location Haas calls attention to the fact that an abduction brace, when applied so as to hold the arm in the frontal plane of the body, has the pernicious effect of forcing the head of the humerus out of the glenoid cavity Therefore, in conservative treatment with braces or plaster and for protection after operation it is important to see that the arm is directed a little antenorly to the frontal plane of the body. When such a luxation is already present, it should be treated either before or at the time of the muscle operation The Kiliam-Nicola, Hender son, and Kirchner-Fowler types of operation are adaptable to the paralytic type of dislocation The Kiliani-Nicola operation has been found best as it is relatively easy to perform and can be done at the same time as the numelo facts operation

Before the fascia transplant as anchored to the humeres the long head of the bloops is exposed by discretisg through the atrophled deltold mescle. In dislocations to the medial side a modification of the Albert Vicola operation is used, the bloops tendon being cut in the and the procises portion passed through the humerus medial to the greater tuberosity and in lateral or posterior displacements it is passed lateral to the tuberosity. In this way corrective pull is obtained on the head of the fre merus toward the glesoid cavity. Correction of the dislocation of the shoulder joint Improves function as the fuxation changes the fine of pull and presents strong fixation of the bead in the glenord. The unportance of fixation of the bead of the h merus has been emphasized by Mayer who showed that the first on degrees of motion after a trapenus fascia transference is a fixed rotation of the humerus and scapula. Any subsequent abduction is a free motion between the scapais and humerus due to the pull ! the biorps, coracobrachusis, or pectoralis mayor This is the reverse of the normal movement of the upper extremity in abduction. In some cases the mechanism of motion after the operation is found to

be similar ( the source) movements of addiction in a sumble of the case reported by the successor in the accessor of the case reported by the successor in their was set sufficient mouth be expected at most as either as set sufficient more an arthrofera. Of the control of the control of the control of the operation are along period of postoperative physical theory and postoperative protection from strain continued, in occupant of the control of the cont

Monatt C London, N D

Total, A. H. The Treatment of Fee Carus. Free Rey Sec Med Load. 134, 18. 7

The defer methods of treating per cavus often fails because they are based only on an itempt to consider the deforant's. E. m. ben correction of the deformity is accomplished the moderlying cause in not corrected and recurrence develops. In the ordinary is altered and recurrence develops. In the ordinary is satirity in the forefoot. There was no paralyses of the loadinest or lateresseeps muches. The latter play only a pressive part. This is evident from the faithful that when the forefoot or nations are widenly the the day of the part of the latt. that when the forefoot or nations are not provided from the faithful that of the faithful that of the forefoot or nations are not made after the day of the tots drop down unto normal position sense.

ing a secondary sof pdenty. The sessential distribution as the forefoot drop. The author behaves its cense is seakness of the long extreme group of markets, techniqued of the foreign and the

soft-part contractures have occurred. Pre cavus is

not one to a shortening of the tendo achilles. Shorten

and tendes absents on the lance side of the foot lis addition, Sciendier's section of all structure attached to the or calch se dose at this above the entire feet the charget. The foot is then vigorously manipolated in the second part of the operation the criticuse tendous are transplanted through lakes been the nector of the first, third, and fifth sectitions that the contract of the contract of the second part of the first, third, and fifth section as a net-concreted position. In cases with contract tion of the not parts of the ton, arthrobetic of the proximal interpolatings [1] joint is slower and, if

secessary the deformed fifth too is ampetated. This operation is usuall best performed when the patient is between statem and cighteen series day, but II the deformaty is no market that this pastrar cultures are formed it should be done outfier. The results are satisfactory and personness. The operation is contra indicatory and personness. The operation is contra indicatory in the runse of electry patients as the market constructors and in cases of deformaties due to pollomyshift a tir consistency patient paralysis of the artisency tendom seaders.

CERTER C GOT, M D

#### PRACTURES AND DESLOCATIONS

Freiberg, A. IL: Congenital Luxation of the Hip Selection of Cases for Open Reduction. J Sea & Just Sury 015, 7

In reviewing the history of the instances of one general hexistics of the high Feshery as a that, in 1604, Leorian, besing his opinion on on case of open openition, castiended that thempts at repositions by any closed method oxid fail, whereas two years of the control of the closed materials the controlling proposats of closed materials that one of the control of the the closed method require very early recognition of the condition. All cases of congenital dissociation of the input may be classified into of the following, groups () those in which closed reduction should the control of the control of the control of the wealthing of even its requiring closed references the cheatable and (3) those is which closed reduction of the observation of the present because of 188.

marked deformity or body struct re Frashorp between that the technique of closed it duction has undergoot very decided improvement, that the decide method will be successful in good percessing of cases of congentral endocations of the hip in young children and that open operation absolute be reserved for the raises of young fashed and for attempts at closed freedom to the structure of the contract of the contract of the contract of the solution of the contract of the contract of the order of the contract of the contract of the article that is the solution of the contract of the article that is the solution of the contract of the article that the contract of the contract of the article that the contract of the contract of the contract ing marked lump, should not provide a solution of the first refutation will doubless appear but that the night be said of open operation if it were performed rectually on young clusters.

In conclusion he says that he looks upon shifts' effort at closed reduction as an indepensable preincursary to the recommendation of open operation Open operation has a place as a method of reduction for congenital dislocation of the hip, but should not be regarded as a substitute for closed manipulation

PAUL C. COLONNA. M.D.

# Compere, E. L., and Phemister, D. B. The Tibial Peg Shelf in Congenital Dislocation of the Hip J. Bone & Joint Surg., 1935, 17 60

A shelf-forming operation is indicated in congenital dislocation of the hip when open reduction is accomplished and the acetabulum is too shallow, when, in older cases, the femoral head cannot be reduced, when, with usage, after closed reduction, the acetabulum proves to be inadequate, and when, in cases of congenitally inadequate acetabulum, the

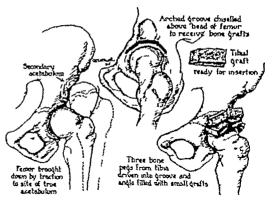
hip becomes painful during adult life

This type of procedure with various modifications has given fairly satisfactory results. Its advantages are the ease and simplicity of performance of the operation. However, it has certain disadvantages. One is that the shelf may not be turned down sufficiently low. Another, that the reflected bone is sometimes unstable in its new position. A third, that postoperative muscle contraction tends to displace the femur upward, especially if it has been pulled down and if complete reduction has not been accomplished.

To obviate these disadvantages the authors formed a tibial bone-peg shelf in fourteen cases of congenitally dislocated or inadequate hips and five cases of pathological dislocations resulting from

pyogenic coxitis

While the number of cases is small and in most of them the time since the operation is too short for determination of the end results, the authors state that in cases treated by this operation the shelf formed is more firmly anchored and heavier than the shelf made from the ilium, weight extension and



Diagrammatic illustration of the tibial peg shelf oper ation

pin or wire fixation of the femur to the cast are not necessary, and the periods of immobilization and confinement to bed are materially shortened Subsequent upward displacement of the shelf has never occurred

The range of motion has not been all that could be desired, but, on the average, has been about as great as that obtained after the formation of an iliac shelf

Disadvantages of the operation are that it is a more formidable procedure than the formation of an iliac shelf and requires two incisions. However, if one operating team removes the grafts while another exposes the hip, reduces the dislocation, and prepares the field, the time is reduced to approximately that required for the construction of an iliac shelf and there is little shock.

NORMAN C BULLOCK, M.D.

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Schumacher S. Acteriorences Ameterioses (Zur Leganza de Attensormone Ametorocca (Lu-

Ordinarily an artery becomes lest in the capitally Commany an arrest becomes seat in the capturery network from which the yells originates. In the network from water one year commerce is smoot comcapitally has suck the proof presents it increases to the persay tont, and in the versa it occreases to the minimum. At very definite sites there occurs a aut minimum. At very denote nice there octure a sur-of abunding, short-directing between the artery of granting, thori-cutming octaves the artery and the vein through now or several antiformatic nd the vein turough one or several anaeromoure vessels. These are modified attesties and are capable rement a new are moduled artistics and are capation of complete closure. The ordinary effection its not of complete closure. The ordinary affects of costs of closure, even with maximal contraction of their vaculatity arranged executation their vaculatity arranged executation their or their vaccinity arranged executative too certal alice there are antones which, in addition terror meet there are altered when, in another to A ring transmission, possess also in Internal to a rink ormeniative, possess also n internal money are and consequently are longitudinal munculature and consequently are copable of closure. The longitudinal munculature is arranged in the form of canadom He amountainer to the control of canadom He and the longitudinal bundles prea arranged in the form of considerates business pro-trading toward the home (numbrical arrange the troung wears one mann tenorates array one primary branches of the digital stories, the dorsals primary oranges or too organ merics, by downing arrays small branches of the thyroid arrays penis artery small branches of the thyroid artery said anastomotic vasces). Accordingly as a said to the control of the contro motic vessel may open and coose Worn it opens, the blood for from the stricty directly into the the blood flow the anatomoris which offers less ven through the anatomous which ours are resistance to it than the capillary network, and the restrance to it man use capacity measure, and me corresponding capacity area is company, abunted corresponding capturery area is companied announced out of the circulation. The arternal blood pressure out or the circulation. The arterial about Personne is thereby transmitted to the vein and blood richer is universely transmistered to the wind and about honey in a state occurs. Then state occurs

in cargen reacces the ven. When stages occurs the column of blood in the veta can be pushed for the comma or mano in the version or pursuant in-ther by this visa-tergo. If therefore appears ther by time vise-targo it mercano appears eriocent that the chief sactors are curcumvasses the elevation mechanism which may cherk stans in the circulation. This is indicated this by the chief standard of the chief standard s a tag circustrus thus is industrial and by the afterforeness and industrial and by the stee of the arteriorcoops anatomics, when occur-capitant at the most extract points of the body where state originates noted easily as in the strong the contract of the strong state of the strong o work name originator tools court as in the same of the fasters and locs, especially the christian entires titles of manufactures of both to the oncies of knowtour of manmens and party, in the sunces of son-carred animals. I the up of the morn and in curred animals, c the up of the shoon, and in CHICAGO MINE / CO ANNOVA ATTAINS OF IAS PENAS ATTAINS OF IAS POR A TAIN OF THE ANNOVA ATTAINS OF IAS POR A TAIN OF THE ANNOVA ATTAINS OF THE ANNOVA ATTAIN CHARGE DETAILED ALLEGED MEASURES AND CA STRONG ASSERTED WHEN THE ALLEGED AS AND THE MEASURES AND CHARGE OF A STRONG PARTY OF THE ALLEGED AS AND CHARGE OF A STRONG PARTY OF THE ALLEGED AS A STRONG PA tione is sampled into the discussion and creation they close the blood flow int the das through the capallance and the crecile body can through the capables and the circuis body a seastomore are found also in internal organs On examination one is impressed by the numerous continue through anatomorie vessels which show a

Picture difficiles from that Presented by ordinary consecutions of articles. Inharmout is the endother articles are also form to the control of the control cross-sections of streets and there follow several layers hmm. For this port and there follow services separate of record or polyhedral cells with https://www.asstatoonelic.yes.com/asstatoon antifomotic reason resemble grain outcu and accordingly considered to be such ducts. At the transin many consumors to be seen than a first or the seen that is a stary late an assertion of an anticy late an assertion of the seen that the epithebold cells contlining the impact of the seen that the epithebold cells contlining the impact of the seen that the epithebold cells contlining the impact of the seen that the epithebold cells contlining the impact of the seen that the scen that the extinction of the muscle cells of the stead main have become aborter and theret meads macon pare become morter and torcar more calls with sucket that have become rounded of and calls with success that have become rounded or and derived of shifts. As the epithesis dispersistant is characteristic of a marconoctic remedia, such recharacteristic of II anatomotic remeis successful may be recognized results from the structure of the walls of constraints of the structure of of the muscle cells are demonstrable in distinct

of the muscle cells are demonstrable in deferred precise in the vivolvinceode pre the activities of represented by supplied to the activities of the constitution of t is further advanced. In man it has personer as the differentiation of circular and longitudinal former and comparable for the comparable former and soprismes music can being so longer possess as these cells have become polyhedral. To lact of as more constant persons polynomic. The rect of the constant is the constant to the constant in the constant i concuped screening at their the reach aboving to described attorture are capacity or cases of the times the lames of the anatomotic read a sea completely closed and sometimes open. On later completely coned and sometimes open to solve the of the median seculi riety the median secution of the median secrat mery toe median secrat wan sometimes closer immediately, without siles van sometimes cover immensiony without some of the capitaries is the recedity and sometimes the ce captures to too vicinity and executives the capturines and ap terory too your 1 Opera institution of the explained self

and the cabaptith of comits will considered The manner in which closure of the anatomore the manner in which cooper or the anatomasses occurs as still understanded. Scening to rate our contractability of the epithebold cells in the absence contractability of the chatterions come in the answer.

of my otheric and the post-bridge shape of the cells. of m) countie that the cells a dl ap by the accounation of air thereby coding the lance is a Atton or After thereby closing the larges in a purely passive imager. Attention about the called so to the frequent occurrence of smeller books no to the irreport occurrence of manufacture occurrence of manufacture occurrence and income Au to the richny or arteriorenous anatomics: A these are apparently to be regarded as creations of blood pressure the localitation relationship but see manus pressure the accumulation removations per second analysis of analysis of analysis of the second stay have less

The small intention has a short cut circulation And small interime has a more cut currences which differs in different species. In this report tao knothe of startes are to pe depressions. one strong to which belong the redents, the het and man, the short-cut circulation is located in the repon of the with The artery of the rules of rides repon of the villa. The artery of the vices corosos for in the tip of the villas sale ( , brackes, are all which goes directly fato the rota of the wife thereby forming a amendometric marginal arck

and the other of which becomes lost in the capillary network of the villus During the fasting state and also at the beginning of the injection only the marginal arch becomes filled, the capillary network remaining empty During digestion, not only the marginal arch but also the capillary network becomes filled In the other species group, that of carmivora and ungulates, the short cut circulation is located, not in the villi, but in the submucosa Here there are numerous typical arteriovenous anastomoses in the region of venous nests, the "small venous bales" When the anastomoses open, the blood flows into the venous plexus and the mucosa is for the most part excluded from the circulation When the anastomoses close, the villi are shunted into the circulation Because of these direct communications between the arteries and veins the blood in the mesentenc and portal veins is under a relatively high pressure and receives a relatively large amount of oxygen It is evident that there are mechanisms in the intestine which make it possible for sometimes large and sometimes small amounts of blood to pass through It must be borne in mind also that artenovenous anastomoses occur in the mesenter) In one instance the author was able to demonstrate them in the cat

(E HEMPEL) LOUIS NEUWELT, M D

Frieh, P, and Levy A Arteriography in Certain Vascular Diseases of the Extremitles (Renseignements fournis par l'arténographie dans quelques affections vasculaires des membres) Lyon chir, 1934, 31 660

The studies reported were carned out at the Grange Blanche Hospital, Lyons, on the service of Lenche

The authors state that they adhere to the technique of Dos Santos They employ thorotrast as the contrast medium and have never found it to evert an unfavorable effect. The use of the Caldas radio-carrousel makes it possible to follow the me dium from the arteries into the veins and thus obtain a clear picture of the vascular tree in its entirety up the circulation is of aid, especially in exploration The application of a tourniquet to slow of the arteries of the foot

The studies herewith reported were made in twenty-five cases of penpheral vascular disease In all, the information obtained was found to be of value in the determination of the proper treatment Among these cases were sixteen of artentis and four with syndromes suggesting artentis in which a positive diagnosis of artentis could not be made on clinical examination The former group included seven cases of atheromatous artentis, four of the Buerger type of artentis, two of frostbite, and one case each of diabetic artentis, artentis of rand evolution, and arteritis of specific origin The latter group consisted of one case each of scleroderma group consisted of one case each of Scientific associated with Raynaud's disease, Volkmann's syndrome, traumatic osteoporosis, and painful

In three cases the contrast medium was injected into the aorta and in one case into the axillary artern above the clavicle In all of the others it was injected into the brachial artery in the antecubital fossa for study of the vessels of the upper extremity and into the femoral artery below the inguinal hgament for study of the vessels of the lower extremity

In a number of cases the clinical symptoms permitted a probable diagnosis of arterial obliteration It is most important to know (1) the exact

position and extent of the obliterated portion of a vessel, (2) the condition of the arterial tree in the region of the thrombosed trunk, and (3) the amount

Certain arteries are suitable for arteriectomy and others are not. The former include the external iliac and femoral arteries and the latter the popliteal

Occasionally, in spite of a sufficient collateral circulation, the condition of the entire main trunk Is so poor that a high penartenal sympathectomy is to be preferred to resection. The danger of friability of the vessels and of the cutting of a rigid artery by a ligature must be borne in mind

Arteriograph, shows not only the presence but also the nature of vascular occlusion For example, in the cases of young persons it is difficult to differin the cases of young persons it is uniform to underentiate chincally between an atheromatous condition of the arteries and Buerger's disease Arteriography shows that in atheromatous disease the artapus suows that in atheromations disease the alteres are abnormally large and rigid and eventually look like a string of beads, whereas in Buerger's disease, the vessels are small and narrow, similar to those of a child. In certain cases of extensive ulcerathose of a chinic. In tertain cases of extensive nuclea-tion or gangrenous plaques, artenography shows the artenes to be permeable with the exception of the arteries to be permeable with the exception of the finest terminals. This is the picture in frostbite, in which excellent results are obtained by pen-

In diabetic gangrene the vascular lesions are very variable and their manifestations do not always Correspond in site or extent of the obliteration In fact, the arteries are often permeable into the gangrenous tissue On the other hand, there are cases with atypical pain and minimal trophic disturbances in which it is impossible to determine clinically whether the condition is atypical Raynaud's disease or artentis with the Raynaud syndrome of also examination of the peripheral vascular system

Arteriography is very valuable in determining where to approach a vessel which has become suddenly occluded by an embolus or is becoming occluded by a thrombus It serves also to differ-

entiate between intense spasm and organic occlusion The authors report one case each of Volkmann's I the authors report one case each or volking in schamic paralysis, traumatic osteoporosis, and schemic pararysis, traumatic osteoporosis, and schema secondary to Raynaud's disease in which artenography with thorotrast showed the vancular bed to be open and the condition was alleviated by penartenal sympathectomy

ADRIEN VERBRUGGHEN, M D

#### BLOOD; TRANSFURIOR

Buggs, R. Spontaneous Hannophilla a Report of Mx Cases in Brothers. Am J. M. Sc. 1934, 58 311

The author reports the occurrence of hescophills in six boy of a family is which there were seven

in six boy of a limity in which there were seven boys and one girl As the leletory of the mother's samily through the fourth generation and partly through the fifth re

fourth generation and partly through the fifth revealed no case of bleeding and as a large number of such relatives studied were free from hemophile. Boggs rejects the theory that the disease was concealed in the family for several generations and comes to the conclusion that it was either truly spontaneous or explained by flightlinner.

HOWARD L ALT M D

Rg. J i Blood Transfucion (Urber Biotirsonbulon). Forst M g f Laproidensk 934, 95 1085

After a brief reriew of blood transfosion, the various blood groups, and the usual methods of blood-group determination and their disadvantages, the author presents a new method. Starting from an A or B group, every other blood group can be determined by this method. However the AB and O groups cannot be used for the starting point. The technique is as follows.

One-half cubic continueter of blood from the are over do of a A or B group persons is centrifugation to obtain the serves. One drop of the blood and it can of a per cent outdom drains solvation are then mixed in a small test tube. The same perceives is followed it this recipient's across. Two samples are prepared for selectoscopic examination. A looping of the known serves and unknown for the seal alooping of the known serves and unknown better than the server of the server

5 A (B) serven+volutions errifereries no aggi tination unknows serven+A (B) erritavortes no aggintination Group A (B)

s A (B) serum+unknown crythrocytes=aggletination unknown serum+A (B) crythrocytes=so agglutination Group AB

agglutination of the halfman arythrocytes = seglutination unknown arem + A (B) crythrocytes = agglutination Group O

4 A (B) seran+unknown erythrocytes-aggiethation unknown screen+A (B) erythrocytesaggistination Group B (A)

(Koerter ser) Pettir Searce, M.D.

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Pohl, II The Prevention of Pulmonary Complications in Surgery of the Somach Pre-Operative Vaccination (La prévention des complications pulmonaires en chirurgie gastrique La vaccination preopératoire) Bruxelles méd, 1934, 15 1

The study reported was carried out on the service of Gosset at the Salpetnere, Pans

The author first discusses the relation to postoperative pulmonary complications of such factors as age, sey, previous pulmonary disease, the condition of the heart, arterial tension, lesions of the vagus nerve, the season of the vear, general conditions of sanitation, chilling, anæsthesia, and diminution of the respiratory excursions Exciting causes of such complications following operations for ulcer of the stomach include infection descending from the sinuses, nose, teeth, or tonsils and infection ascending from the area of the peptic ulcer, especially by way of the lymphatics of the diaphragm Following a detailed discussion of the clinical, bio logical, and anatomical manifestations of acute exacerbations of peptic ulcer, Pohl states that opera tions carried out during an acute exacerbation are

likely to be followed by pulmonary complications The symptoms of three types of pulmonary com plications are discussed typical pneumonia, pul

monary congestion, and embolic bronchopneumonia In determining the incidence of pulmonary com plications in non vaccinated patients operated upon during the period of a year, the author considered as cases of such complications all those in which there was a rise in the temperature exceeding 38 5 degrees C accompanied by dispuces and cough,

In discussing vaccination for the prevention of pulmonary complications, Pohl describes the meth ods of others and then his own procedure

Pohl first makes an intradermal test to determine whether the patient is sensitive to the bacteria usually associated with pulmonary complications For this purpose he uses a polymicrobic vaccine from the Pasteur Institute If the intradermal test is positive, he vaccinates the patient with the vachydum of Duchon according to the technique of Lapointe, giving 14, 14, and then a daily injection of I c cm daily for eight days A differential leucocyte count is made every day and another intradermal test on completion of the vaccination The final intradermal test is usually negative If it is positive, another series of injections of vaccine

The proof of immunization is the marked polymorphonuclear reaction in the blood, the negative

intradermal reaction, and the low incidence of pulmonary complications in patients treated by vacci

The incidence of postoperative pulmonary complications in gastric surgery has been reduced by pre operative vaccination from 39 4 to 22 6 per cent, and the mortality of such complications from 96 per cent to o In a series of 104 cases without vaccination—in half of which operation was performed under ether an esthesia and in the other half under a combination of local and spinal anæsthesia pulmonary complications occurred more frequently when local anaesthesia was employed than when anæsthesia was induced with ether Of the 41 patients who developed such complications, 9 died Of 62 cases in which vaccination was done, local Of 02 cases in which vaccination was used, according to and spinal anesthesia was used in 52 and ether anæsthesia in 10 developed in 3 of the cases in which ether was used Postoperative complications and 11 of those in which local anæsthesia was used, but were mild and in no case were fatal

The author emphasizes that pre operative vaccination must not be regarded as a panacea against postoperative pulmonary complications. It must be supplemented by other procedures. The patient's supplemented by other procedures the patient's general condition must be improved as much as possible and foci of infection in the sinuses, teeth, tonsils must be eliminated Operation should be postponed until all clinical and biological signs of infection of the gastric lesion have disappeared In Pohl's cases vaccine is given when necessary until the intradermal reaction is negative and the leucocyte count is normal For two or three days before the operation gastric lavage is carried out with a dilute solution of iodine in water

During operation, precision and gentleness are important An extensive gastrectomy is to be preferred to the excessive gastro-enterostomy

After the operation the patient should be kept warm and quiet As the most important factor in the development of pulmonary complications is diminution of the respirators excursions, the patient should not have a tight binder or be kept long in bed Morphine should be withheld so far as possible The author's patients are allowed to sit up in bed after twelve hours, to sit on the side of the bed after thirty six hours, to sit on the side of the oed eight hours, and to get up the next day respiration should be encouraged inhalations of carbon dioxide has been proposed

In conclusion the author emphasizes the importance of meticulous preparation of the patient, care-The use of ful choice of the time for operation, vaccination when necessary, and getting the patient up early ADRIEN VERBRUGGHEN, M D

Butchiff, W D and Steele B. F: The Relationship of Infection to Postoperative Pulmonery Complications. Arch Surg. 935, po 14.

The authors report a sindy made in sinteen cases before and sites abdominal operations to determine the relationship between postoperative polimonary complications, infection, and diminished centilation. Except for one appendictionly the operations are performed on the pure part of the abdomen The anesithetic employed was either alone or either preceded by nitrons oxide and xygen, lift the

exception of one case in which vertila was ad-

Symptoms referable to respiratory disease were usually slight, but physical signs of pulmonary changes were present in all of the patients. Roont genograms were taken before the operation and every two to four days for period of two weeks after the operation Elevation of the disphragm was noted postoperatively in all of the patients. It was associated with duliness and rates at the bases of the lungs. Physical examination disclosed rates in nine cases, duliness in six, diminished breath sounds in four and bronchul breathing in six Patchy shadows appeared in the postoperative roentersorrams in six cases and diffuse assuress in three. In four cases nothing more than an elevatio of the diaphragm with corresponding physical changes was observed. I these, the charmon's of hypoventilation was made. In two cases, definite polynomary complications—lobe collapse in one and bronchopneumoma in the other-were found the ten other cases the signs were of an intermediate thora believe that many of the character The physical changes would have been overlooked if pecial roentgenograms had ot been made. The sixteen case histories are presented in table and four cases are reported in detail

Repeated soes and throat cultures were taken in the maje boy of the cases they were taken on three occasions before the operation and I intervals of from one I four days after the operation. To bectenological findings are reported in detail. Three patients without pathogenic organisms in the plary yax before or after operation showed the least changes in the interp. Of the thirteen patients with pathogenic organisms of the pathogenic organism of the pathogenic organisms or the pathogenic organisms or

#### Langerhager K. The Problem of Pulmonary Embediam (Das Problem der Langesembobe) Hebst mei Acts, 934. 15

In all except two cases of fatal polymonary emboism seen during the last four years the embols we small, ranging in size from that of peat to that of the tip of the httle finger. The patients would not have been saved by Trendelenburg operation as there was no mechanical obstruction. Moreover most of them died within few ministes, whereas in transic large pulmonary emboli the patient usually survives for from ten t t elve minutes

The author presents typical case histories. The theory that the sudden death is due to refer caused by friftation of the vessel wall by the soddealy entering embolus he believes is untenable as even powerful stimulation of the vessel wall such as that produced by the injection of science g solo tions into varicose veins, arteriography and the lodging f fragment of the steel jacket of builet branch of a pulmonary vessel has no reflex effect Foreman was able to sound the right auricle through the basilic vein on himself without causing side-effects, and in experiments in lach Allen and McColl and Schumacher and Jehn attempted to produce artificial palmonary emboh in animals so evidences of shock were noted although pleural nd mechastinal shock are well know the soment in azimais. The winp-like pain occuring in arterial embolum cannot be cited in support of the theory as it is caused by the secondary arteriospasm or ischarmic spasm. Moreover the expermental researches of Odermatt have shown that the

arterial intima is meensitive to mechanical stimul-Lengrenhager therefore believes that the sudden death should be regarded as to us reflex death. All blood clots, including the intravascular undergo dissolution by sterile tolysie after certain length of time. This process sets free protein bodies which cannot be tolerated parenterally. The author curs the experiments of Hoffmeister and Voelker. He himself performed experiments with four sumples of human blood. A sample of normal sterile known blood, a sample made slightly alkalese, and a sample alightly acidified were bermetically scaled and placed in the incubator for twelve days, and sample f normal blood was placed in the refing erator Actually therefore, blood coagula were employed The isonisation period chosen was twelve days became embolum muzilly develops is about that length of time. The autolysates were filtered, tested for sterlity, and injected intravenously ( cm) int rabbits. It was found that severe disturbances of cardiac function ere produced only by the normal or accelified autolysates T est; seconds after their use, tachycardia developed with powerful dilutation of the heart, especially the right heart, and within ne or two minutes the heart topped If c cm of a 14 per cent solution of sodium phosphete were injected int the right heart ramediately under pressure the beart soon recovered normal function. Although these reversible tonic effects were observed only twice in studies of ten specimens of normal human blood, Leaguehager behaves they represent the phenomena occurring m climical cases. H bases this theory on ( ) the palse and temperature changes which not talrequentl preceds the occurrence of embolum, ( ) the dilatation of the right heart which is often found to internal thrombours and (3) the fact that even quit large pulmonary emboli often do not cause instantaneous cardiac death

It is to be assumed that postoperative acidosis favors the formation of autolysate toxins. Arterial emboli produce no symptoms because the milieu in which they occur is alkaline.

Lenggenhager then replies to the criticisms of his hypothesis. He discusses particularly why reflex death does not occur in cases of hematoma and extensive thromboses without embolus or in those of large emboli occurring soon after operation. He states that in cases of hematoma there is a slow resorption which does not enter the direct blood passages. In extensive thromboses there is a slow diffusion, and in cases of large emboli the time is too short for autolysis.

Lenggenhager then gives practical instructions. The described procedure is the injection of from 100 to 300 c cm of a 2½ per cent solution of sodium phosphate by means of a large syringe into the right heart through a semi soft hollow probe filled with liquid which is pushed forward for about 32 cm through the opened external jugular vein

(TRINE) HIPEI A SILZUIN MD

Arnulf, G The Pathogenesis of Postoperative Paratitis (Ou en est l'étude des paratidites postoperatoires? Essai de mise au point de leur pathogéme) Rev de chir, Par, 1934, 53 680

The author considers only parotitis occurring after an operation at a distance from the parotid glands -an abdominal operation for instance-in which there is no infection of the mouth or parotid region and the trauma of the operation was apparently the only cause of the condition. He concludes that the infection in such cases ascends through the duct. As the parotid opens into the mouth, which is a very septic region, ascending infection may take place just as in the kidney or pancreas. The mouth contains all the bacteria that are found in paroutis The organisms most frequent in postoperative parotitis are the staphylococcus aureus, streptococcus, and pneumococcus When there is an infection at the site of operation, the micro-organism in the parotid is usually different from that found in the operative wound

Arnulf reports experiments on dogs which showed that parotitis may result from arrest of parotid secretion and that arrest of parotid secretion may be caused by operative trauma As a rule the secretion of saliva is increased during operation and slowed at the end of operation. On the first postoperative day the mouth is very dry. The secretion of saliva is reduced by reflexes, dehydration, ether anæsthesia, morphine, and the absence of movements of mastication. Among the factors predisposing to parotitis are an orifice or duct smaller than normal, a greater reflex inhibitory action from the peritoneum to the salivary gland, and a more abundant buccal flora than normal As these factors are rarely combined in the same case, postoperative parotitis is rather rare

Postoperative parotitis is best prevented by the avoidance of unnecessary trauma during operation.

the administration of abundant fluid before and after the operation to prevent dehy dration, hygienic treatment of the mouth, and the administration of stimulants to salivary secretion when the mouth is dry

1 UDREY GOSS MORGAN, M.D.

# ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Loehr, W Treatment with Cod-Liver-Oil Ointment, With and Without a Plaster Dressing, in Cases of Fresh Wounds, Burns, and Phlegmonous Inflammations (Ueber die I ebertransal benbehandlung-mit und ohne Gipsverband-bei frischen Verletzungen, Verbrennungen und phlegmonoesen I nizuendungen) Zentralbi f Chir, 1934, p 1686

Lochr reports on three and one half years experience with cod liver-oil ointment in the external treatment of wounds. His clinical experiences were supplemented by studies of the effect of cod liver oil on wound surfaces.

Most oils, even though not sterilizable, are nevertheless free from bacteria. Cod liver oil belongs to this group. Bacteria are destroyed in it even if they are added in large numbers. Moreover, experience has shown that very large amounts of cod liver oil applied to large wound surfaces do not produce toxic phenomena.

Since cod-liver oil in fluid form does not adhere to wounds satisfactorily, an indifferent ointment component was mixed with it. This combination is not inferior in effectiveness to the raw cod liver oil. With melting of the cod liver oil ointment, the oil pene trates into all crevices of the wound, abundant granulation tissue forms as in the Bier chamber, and the epithelium is stimulated to grow. Even in cases with enormous wound surfaces, Lochr has never been compelled to transplant skin in the last three and one half years.

The invasive power of the bacterial flora of the wound is very markedly inhibited. It is important to avoid disturbing the wound any more than is absolutely necessary. The use of drains and gauze should be omitted if possible, and changing of dressings should be limited to the minimum. In some cases an unperforated occlusive dressing of codliver-oil ointment and plaster may be applied to advantage over the layer of cod-liver oil.

Wounds that have been roughly contaminated with soil and highly infected wounds are never treated primarily with cod liver oil ointment. The cod-liver oil ointment and plaster dressing is indicated for chronic wounds with large tissue defects of the most varied types and after phlegmonous processes and gas gangrene, but particularly for burns

The results of this treatment are shown by seventeen illustrations. The lesions included recent in dustrial injuries of the fingers, a gunshot wound of a finger, severe burns, a large roentgen burn, severe crushing injuries of the forearm and elbow, severe compound fractures of the leg with large defects in

the soft parts and bones, a severely contaminated crushing injury of the brans with shell and soft-part injury and loss of substance of the upper extremity from may orders.

The effectiveness of cod liver off is attributed to its content of Vitamins A and D

(Remark) JOHN H GARLOCK, M.D.

Clerk, A. M., and Cruickshook, R. The Trestment of Burns. Lence 935, 18 301

During the past tw years bacterological examinations have been made of sw ba taken from the abraded surfaces of severe barns in cases admitted to the borns wards of the Glasgow Royal Informary It has been found that in the cases of patients admitted to the hospital within twenty four hours after the lanary the mejority of burns are uninfected t the time of their admission. Later, generally within from twenty four to forty-eight hours, caltures from the burn yield a profuse bacteral fora in which streptococcus hemolyticus is smally the predominant organism. This becremm is not inferquently present to simost pure culture and seems to find the large abraded area deprived of its protective epithelial covering particularly favorable environment. Because of experimental evidence that taxatic acut acts slowly on cult res of streptococcus hemolyticus, the utbors advise the use of t per cent taunic and solution to which is added a so per cent solution of proprietary halogen deriva tive of sylenol. They apply this as most dominer 5 TET | SEROTE NO

Dunbar 1 A Review of the Burn Cases Tranted in the Glasgow Royal Indicasory During the Past Handred Years (1821-1834) with Score Observations on the Prevent-Day Transment. Glasgow M. J. 581 28 39

Dunbur reviews 0,074 cases of borns treated in the past h offerd years. Duning the past fifty vernthe Glaugon Royal Infirment has had burns wards. The number of cases seen as increasing. The increase to to ( ) in increase in the population, ( ) in creasing popularity of boogstals, (3) changes in social

and economic conditions, and (4) industrialization In the 1,417 fatal cases reviewed, 8 per cent of the deaths occurred in the first tackes boors, ab s per cent within twenty four hours, and 65 7 per cent within forty-eight bours. The mortality then fell t B t per cent on the third da and a per cent on the fourth day and thereafter gradually decreased until the foorteenth day her t showed shight percess The greatest maraber of deaths occurred bet ers twelve and t ext four hours after the condext Only 85 per cent occurred other the time limit usually associated with the begrazing of cut torrems Dunba is of the opinion that if the obriously fatal cases are chracasted, the percentage of deaths due to acute townse to are small II does not believe that ecute toxxens to due to the absorption of broken down protests, bring inclined rather to attribute the phenomena associated with the socalled toric burn shock t inferton. In his experience, burns of the performs of such infants are often rapidly facal regardless of their severty. He thinks this fact is explained by irritation of the testtific to the contract of the contract of the test-

The local treatment of borns duting the past harded vears rays the drivided into the persols before and after the introduction of assumption, that is, before and after 1868. In the pre animative period, two methods were employed, the dry and the ody. The antiseque are cas so bed ided roughly int three periods () the carfolic soid period (183–1831) () the modificant hearthcaster period (183–1831) () the modificant hearthcaster period (183–1832) and (g) stouck and period. These represent three theories as to the prescipal transe of early derif.

() that organisms to responsible (s) that organisms are not the sale trune and (s) that protein

decomposition, not infection, at the case. Because of the secent populating of the termis add treatment, it is interesting t note that this form of therapy was treated by Daulean 183; but sparently ded not become popular. I that then Daulean has been disapposited in the results obtained it to termise and method. Until degree terms to be the termise and method there degree terms to and aeround degree burns. The principles providing the general treatment in cases of horms he e best he arms throughout the last headerd years disnisation, stimulation, and the robot of pain. The importance of an absention supply of flowled has been recognized throughout that time. Blood letting as a voque in the method of the time. The prieral treatment in the burns and in Chapter real treatment in the burns and in Chapter Result Inference was the price of the Schotter Result Inference was the properties of the Chapter for all treatment in the burns are in the Chapter Result Inference was below to be shown.

A both at temperature bet een too and to degrees F is given het the passent then part into abeck room where the temperature is maintained bet een do and qo degrees F. In many cases, however the hot both must be omitted. The short room the Indirmany is small one it he acquestly of only

f beds lis imperature can be kept I say temperature desired

Morphine a only go en if accessing 5 trychides, for gr ( / so gr is go et to children) followed by whathy at accreate of from to it four hours as indicated. When shork present,

campior oil is injected.
4. The det comme. 4 liberal quantities of field continuing soften beardonest and glucos. If the patient is such, asince solution is given by rectain A coop memora followed by the combinence rectal solution.

some meeters followed by the continuous rectal actuate setration of salme solution has yielded good results of histories and the magnetism set phone to the cases of adults and with custor of far the cases of children. Unotrop is green every few mounts there down a y familiation routilion of

the kidsey

6 Audistreptococcal across (acaristmal) or gives

6 Audistreptococcal across (acaristmal) or gives

6 all children, to ill pattents with extensive burre,
and to all pattents above temperature rises above

to degrees I within t enty-lose bouts

7 When the patient recovers from shock every care is taken to keep him from becoming chilled during his removal into the ward. The temperature of the shock room is reduced to that of the wards Gamgee jackets are applied to babies, and extra blankets are given to all patients.

8 In cases of severe burns the patient's position

is changed frequently

Pulmonary complications and sepsis are the most common complications. Duodenal ulceration has been recorded in only 10 cases and Dunbar believes that, at most, it has not occurred in more than 30 cases. He doubts that the scarlatinal rish often observed is true scarlet fever. It has not been observed since the routine administration of antistreptococcal scarlatinal serum. Tetanus and nephritis have been rare. STANLEY J. SEEGER, M.D.

Miller, R. H., and Rogers, H. The Present Status of Tetanus, with Special Regard to Treatment A Report of Further Cases from the Massachusetts General Hospital J. Im. 11 155, 1935, 101 186

The authors report a gradual decrease in the mortality of tetanus since 1896 from 80 to less than

47 per cent

They state that the prophylactic injection of antitoxin (1,500 units) is indicated in cases of deep or puncture wounds that may be contaminated. In unusually suspicious cases this should be repeated once or even twice at intervals of ten days

When possible, the wound should be debrided

and kept open

After the onset of tetanus every effort should be made to conserve the patient's strength by the maintenance of nutrition and fluid balance and the combating of muscle spasms

Tribrom ethanol is a useful drug for the control

of spasms

As soon as the diagnosis is made, serum should be given intravenously or intramuscularly or by both methods in daily doses of from 20,000 to 80,000 units up to a total of 300,000 units

In hypersensitive subjects the process of desensiti

zation must be instituted as soon as possible

There are no theoretical or practical grounds for

the recommendation of the intraspinal administration of antitoxin

Serum reactions may be expected in about one third of all cases treated The immediate reactions occur as a rule from two to five days, and the delayed reactions from ten to fifteen days, after the initial dose of serum In the cases reviewed there were no fatal reactions

[Onn H Garlock, M D

Raiga, A The Rôle of the Organic Constitution in the Evolution and Treatment of Furunculosis (Le rôle du terrain organique dans l'évolution et le traitement de la furunculose) Bull et mém Soc d chirurgiens de Par, 1934, 26 530

The author states that furunculosis is sometimes serious. Occasionally it is complicated by septi

cæmia The causative organism is the vellow or the white staphylococcus. The condition may be circumscribed or diffuse. The following five clinical types may be recognized. (1) true recurrent furunculosis, (2) accidental furunculosis in which an increase in antibacteriophages is produced by an intercurrent disease such as coryza, (3) recurrent accidental furunculosis due to successive contaminations from other lesions or other people, (4) recurrent furunculosis with hypergly cæmia in which there is a definite disturbance of carbohy drate metabolism, and (5) severe furunculosis.

Raiga is of the opinion that furunculosis is always associated with definite constitutional changes, chemical and immunological. The chemical change is hypergly cemia either actual or potential, and the immunological change an overproduction of anti-bacteriophages. He therefore believes that the treatment should be directed first toward correction of the hypergly cemia by regulation of the diet and the administration of insulin, and toward combating of the antibacteriophages by autohamotherapy. After elimination of the antibacteriophages the d'Herelle phenomenon can take place normally and bacteriophages may be used successfully.

WILLIAM C BECK M D

### ANÆSTHESIA

Heard, K. M. Clinical Observations on the Use of Evipan Canadian M. 1ss J., 1934, 31-617

Evipan, a barbituric acid derivative, is the newest intravenous an esthetic. Although its use is limited, its action is spectacular. Within from sixty to seventy seconds after its injection, full surgical anaesthesia is established with relavation sufficient for almost any procedure which can be completed in from five to twenty minutes. At the end of that time the patient regains consciousness with amizing rapidity, and after from twenty five to thirty minutes is usually entirely rational.

At the present time evipan must be regarded as chiefly a substitute for nitrous oxide in minor surgery In the case of the patient undergoing a minor operation at home or in a small hospital it provides comfort, safety, and convenience such as were not possible heretofore. All of the author's patients who had been subjected to inhalation anæsthesia previously favored evipan when they nere questioned concerning their comfort during the induction of, and recovery from, the anæsthesia Many persons have a horror of breathing gas or vapor of any kind, and others refuse to permit an operative procedure under local or spinal an esthesia Evipan an esthesia is a welcome time saver to the busy surgeon as its use reduces delay between cases, the technique for its induction being simpler than that required for local or spinal anæsthesia and relayation occurring much more quickly than following the administration of ether or nitrous orde However, as it has been employed for only a short time it cannot yet be designated the ideal type of anæstheria Moreover, it has disadvantages. There is the mechanical difficulty in giving intra venous injecthe archange among in group mureycopes methods to children, nervous adults, and obese patients

with small veins, and there are persons who have a greater tear of the needle than of the mask. ester user or the necture than on the mass. Evipen is used in a o per cent solution of the white crystaline powdered drag in distilled water write crystamine powdered intravenously the rat

on in ten seconds, t will be found that the of on in ten seconds, (will be found that the patient m sill shie t talk normally t the end of tachty seconds. After thirty seconds, he is confused. to entry seconds. After thirty seconds, no is continued or incoherent but entirely calm and pasterful. After or manuscreat our coursey caim and percent. After forty seconds, he poet t steep in the middle of a norty secures, as poss (seep in the minoid of a word, usually with yawn After fifty seconds reportation gradually becomes more superficial, but repression gradiently occurred more superiorant there is practically no change in the color police, there is practically no change in the court prime, or blood presents. After exty accords the partent is or those pressure miles and ready for opera in run third-stage angestocus and ready tor opera-tion immediately following the loss of consciousnon immediately reserving the top or conscious-ficial libs ever I remains regular and of normal thythm until, after possibly ten breaths, respiratory naytons units, and passes on treatms, respiratory movement is scarcely perceptible. There may seen being eding to tao of these principal ne pause count to two or targe training 1 and movements then gradually deepen again until full process resusation and differs from anything seen in annumeration and uniters from suyuning seen in inhalation anisathesis. The color remains unusually good, even if the pause covers a period equal t Soon even a the passe overs a period organ to several respirations. As with initiate con superinosis, there is period of complete analysis preceding mere is period or compare sometimes preceding and following the stage of full relaxations. If the and following the stage of full relaxations. If the type i intervention permits the performance of operative proceedings whost complet reduction of the time may be third as there as no pain and no third time may be third as there are no pain and no complete the complete of the complete this time may be tilized as there is no pain and or recollection of the operation. In the author recurrence to the operation in the author expenses full relaxation including that of the MA expenses on reasonable increasing that or the less muscles with absence of cough and gag reflexes has lessed for from to the minutes. Total orient lasted for from the ten minutes form uncome scoremens with uneful relaxation has been more andomore will users relatation has over uniform for from test twenty missions skeep for after the patient has quietly as in natural skeep for titer the patient nes quietly as in natural sects in bout five min tes and then rolls ver opens his boot nys min tes and then rous ver opens an eyes, and wood arrowed occurred to spread rationally 1 once, but more often he mores about retionally 1 once, but more outen as more assets for few moments, poears dated, and is not retional for four or five minutes. Occasionally in

the cases of very nervous patients there may be the case or very nervous patients there may be hysterical crying, meaning, or shouting. Except for this group, recovery is complete from t early-five that group, recovery is complete from t. thus group, recovery is compacts from t early-ure t thirty into tes after the beginning of the inject In the athor cases of bed patrents the nursing In the armor cease or northern res needed train in care was easy as sees supervision was occord town in cases in which either was employed. When extran cases in which close was empayout the close is to be used in the office of an out patient clinic recovery room must be provided. The majority of recovery room must be provided. recovery rusen minute on provinced to a majority of ambulatory patients will be able to walk bonne from amoulatory patients and no asset ( want some roun forty t fifty manufes after the beginning of the norty: mry minutes area use beginning for an investion Others may require a telming for an investion of more but experience dosage and the

avoldance of sedatives will reduce slow recoveries to the minimum. The entire absence of neares, except in mouth cases, is noteworthy The technique of the administration of eripsa is

a un cocamaçõe os uno sommeración os erupas la as simple as that of any intravenous injection. The as sumpse as that is any miravenous injection. The post der is sufficiently soluble to allow preparation of the solution directly in the ampoula and com syrings. Because of the brevity of the period cem syrings. Because of the brenty of the period of anaestheses. All preparation of the petient on the table, including full sterification of the field at table, including full sterification of the field and cardings, now have the constitution of the control of ness of the induction When the surpron is ready to nome or the introduction of the infection and the introduction, the materials the introduction, the materials the interest in the pattern to a cap the interest in the pattern and determine the speed of the injection and the interest in the injection and the inject and occurrence too speed of the myerion and the quantity of anesthetic t be used. In an energency quantity or annealments: ( or anothing an energony, the surgeon may make the injection and then prothe surgeon may make the injection and thes pro-ceed to operate, describing a name to hold the par-The rate of injection seems very important. The and have us inputions seems very impactant are autoro occorra ne nas prevented the tremor and convalsions which have been attributed to too

conveniences which mayer occu accurated to concom in ten seconds. A slover rata is more difficult meintain, but allows more accurate charrythan of the reactions. It may eventually become desirable or the reactions it may recutingly process or on the Evipan is so rapid in its action that its samme

evited may be continued or stopped at any than contains may be continued in suppose at any many depending upon signs of the desired effect. Its use oepending upon signs or the danger of hiraveness is therefore free from the danger of hiraveness medication which is monatograph pecessa per medication which is uncontrolline because one to solution has been injected, it cannot be recovered. It is one of the few drugs that can be recovered. recovered it is one of the new crugs that can be a tched t work, the most attached to york of a crucic two sects the most securetary sensor and determining double. The other regards the double recommended by the magnifacturer—approximate 15 mgm per kilogram or 7 mgm per pound of body scriptings maximum to corrected only us wong or maximum; oc exceeded only age CREUM TRUDE (DAR ORDER) STRUCTURE OF BEEN ORDER (DAR ORDER) TO BE ORDER OF THE ORDE in each case more very as the lacal cose occurring by animal experiments is said to be from 45 L 3.5. by annous experiments is said to be from 451 to migra per proudd, the margin of safety as wide, mgm per possed, the margin of salety a year property of the property of the precise stopping of the beast. The thought precise I jodge the father received the drug by his response I feature treatment to include a precise consistency. patient reaction to notice or reactions in injection of enough to notice on contrast of the present in the pres bout one half the full dose For example, in believes that the patient also goes to storp rapidly vectors may be paused to so one to secondary be when 3 cm are dominatered and probably be related after the administration of 5 or 3 relaxed after the and next aton of 5 or 8 although the does by weight may be considered more 7 continue t the full eight does in the next to the full of the full more continued the full cight come is in the period of recovery without necessarily justices occresponding increase in the operating that T increase the length of the releastion time the

thoraces the emeth of the relexation time fee used ones incitrational method of injection at this method the operation is began at the sent time with the needle left in place, and if relaxation becomes insufficient after a few moments, a further o 5 c cm is given and repeated at intervals through out the operation. This is probably the ideal method since it allows completion of the work if unexpected complications prolong it beyond the estimated time. In the manner described three times the sleep producing dose has been given without causing undue depression although recovery was delayed, requiring two hours from the beginning of the induction of the anysthesia.

Pre-operative sedatives should be used with caution and only after some experience has been gained in the use of evipan. Morphine seems to add materially to postoperative depression without increasing the period of relaxation sufficiently. In most of the author's cases full doses of codeine or morphine were given within an hour after operation without causing trouble. It appears unwise to use any other barbiturate before or after evipan.

Postoperative complications were entirely absent in the cases reviewed. No evidence of systemic damage was observed. In four cases in which a chemical study of the blood was made no significant change was found. No tissue damage occurred at the site of injection even in five cases in which leakage of the solution occurred. Of the three

patients who showed the slowest recovery one was over weight, one was under-weight, and one had a low basal metabolism. On the basis of experience with avertin such a reaction was anticipated in each as the contra-indications to the two drugs seem very similar.

In a series of thirty cases the author found evipan to be a satisfactory anasthetic without the use of preliminary sedatives or a supplementary angesthetic for the incision of abscesses, dilatation and curettage of the uterus, the insertion of radium into the cervix, hemorrhoidectomy, the extraction of teeth, tonsillectomy, the exploration of an infected abdominal wound, and the control of convulsions in tetanus. In the cases in which its use was most satisfactory recovery was, on the whole, as good as, or better than, that from uncomplicated nitrous oxide anasthesia of about twenty minutes' duration. and in the cases in which the results were poorest they were considerably more satisfactory than those that could have been expected from the use of ether for the same patient and the same operation In four months' trial the drug has fallen short of the author's expectations in some respects, but has exceeded them in others Heard believes there are still more fields in which it will be found of value

MAURICE MEYERS M D

### PHYSICOCHEMICAL METHODS IN SURGERY

#### ROTETCENOLOGY

Hirsch, J. S.: Examination of the Heart by the Roentgenkymographic Method. Brst. J. Radial 014, 7, 743

Observation of cardiac movements by means of fluoroscopy of cinematography has been rather ussatisfactory for practical purposes. The rount grakymographic method, which is essentially roent eroography through a sift disparagm placed close t the object in movement on moving film, seems to be a promising method for the study of cardiac action. In this procedure the outward lateral diastolic and inward mestal systolic movement of small portions of the cardisc contour disclosed in the shi re recorded in the form of a wave on the film which moves at right angles to the direction of the shits. The peak of the wave indicates the post tion of the particular point of the surface of the heart in maximum disstole and the deepest point of the trough of the wave the contrion of the particular point of the surface of the heart is maximum systole By an nalysis of the contour mplitude, and dura tion of the wa es of a particular part of the cardiovascular shadow and a comparison of the time and source characteristics, the character of the move ment of that part may be determined and correlated ith the movement of other parts

The technique used is anal sed in detail as reparts the spacing and with of the ship, the rapidity of the film motion, the film target distance the local mot of the tube, the rotation of the good, and the applicability of the examination with the patient in the horizontal and vertical positions The ameratus should be reassed for both moving film and moving gird, and the complete k mographic examination of the heart should include a postero anterior vien postero anterior second oblique view, and postero-anterior first oblique view with the comphagns filled with a contrast below. The technome used by different workers in connection with some of the factors mentioned is tabulated. The Lymographic record may be studied by itself or in association with electrocardiographic or phonocardiographic records

Because of the difference in the techniques used by different workers, there is a set to conformly in methods of scalyang or reporting the flocking. The a tothe infelt describes and interprets the results obtained by others and humself. The tymographic waver above the character direction, spend, and regularity of the movement of any factorists; period of the movement of the properties of the movement of the properties of the movement of the properties of the movement of the movement of the movement of the contracting muscle and the nature of the surrounding tensor.

The kvenogram differs from the ordinary result genogram in that it is crossed by regularly speed leave which divide the film into a series of imposition behave definite wave or were corresponding to the case differ secreting to the character of the movement of the movement of the movement of the particular part of the leaves of the movement of the particular part of the leaves to be pulsating effects in distribute and system. The cardinar shadow shows a variances in density due to be pulsating effects in distribute and system to the pulsating effects in distribute and with the pulsating effects in distribute and with from both characters and the contract of the pulsating of the contract of the pulsating of the contract in the pulsating of the contract of of the contract

Characteristic waves are found for deferrat per tions of the cardanc contour. Vestricular wave consist fundamentally of a sharp, smooth, inward moving limb representing station followed by a best limb representing disasticle. Auricular es in amplitude that the manifestalles a ver. They consist of low slowly ascending limb (disasticle and relatively short rapid limb (systole). Vascular waves produced by the soviar consist of a slow large describeding limb (disasticle) and the stationary of the soviety of the sov

or materials of described makes it possible to determine this eccuracy the artist and direction does not make the country the artist and direction determination of the soverness of the warron particles of the beauti, the characteristic of the soverness of the warron parts to each other the movement of the heart as look, the boundary potent between the warrons chaushes, and the points of maximum and mathemat devastions, and the points of maximum and mathemat devastions. Thus, the placement of the points may provide and the gross lancouracies of present-day methods of the gross lancouracies of present-day methods of constiguous paperic carabine measurement may be

corrected In the study of the abnormal heart, remigralymography may reveal deviations from the sorred due to distributions of hybrid heart distributions of parts the meanth that of the heart of sorts any present flacing of pair of the heart of sorts any present flacing of the flat of sorts and present flating of the flat of the sorts and the sorts

The kynogram as of an in the differential day none of lemons which produce distortions of the mechanismal shadow. Tomors, substread thyrods, and cysts usually show no merement away, aire deforms of the median shadow due to secte

dilatation presents definite aortic waves and density changes in the waves. The transmitted pulsations show as waves without density changes

Roentgenkymography may be employed also to study the action of drugs on the heart muscle

In conclusion the author says that, according to the data already obtained, many uses will be found for roentgenkymography and it will be of great assistance in the solution of numerous difficult problems in the field of cardiodynamics

The article is copiously illustrated by roentgenlymograms with complete descriptions which con-

stitute a valuable supplement to the text

ADOLPH HARTUNG, M D

Friedman, M, and Rosh, R Protracted External Irradiation in the Treatment of Neoplasms of the Mouth and Throat A Comparison of the X-Rays, the 5-Gm Radium Pack, and the 100-Mgm Radium Pack Radiology, 1935, 24 7

This is a report of a two-year clinical study dealing with protracted external irradiation as applied to the upper respiratory tract. Three types of ravs were used to ascertain the relative value of each. The objects of the study were (1) to compare high voltage X-rays with gamma rays from the clinical standpoint, (2) to determine the optimum number of days for the administration, (3) to determine the optimum number of hours per day, and (4) to ascertain the indications for interstitial irradiation. The three techniques used were as follows

1 X-ray irradiation at 200 kv, 4 ma, filtration by 2 mm Cu and 1 mm Al, a distance of 60 cm, a portal measuring 10 by 15 cm, and a duration of treatment ranging from eighteen to twenty eight days A forty-five-minute treatment producing 200 r was given to each of two areas every day, one in the morning and one in the afternoon. The total dose was from 334 to 5 skin erythema doses or from

3,400 to 4,400 r to each of two portals
2 Irradiation with a 5-gm radium pack with filtration by 6 mm of lead, a distance of 6 cm, a portal measuring 8 by 10 cm, and the delivery to one area only each day of a dose of 5,000 mgm-lirs, amounting to 30 per cent of a skin erythema dose. The time ranged from twenty-eight to thirty days. The total dose was from 50,000 to 60,000 mgm-lirs or from 3 to 3½ skin erythema doses to each of two areas. The grand total was from 100,000 to 120,000 mgm-lirs.

3 Irradiation with a roo-mgm radium pack with filtration by 25 cm of platinum, a distance of 6 o cm, a portal measuring 7 by 9 cm, and the administration of a daily dose of 2,400 mgm-hrs to one or both sides of the neck, depending upon whether one or two packs were used The time ranged from eighteen to twenty five days, and the total dose from 43,000 to 60,000 mgm-hrs to each area

In the use of the X-rays the Coutard technique was followed A constant technique was used for purposes of comparison although occasionally

efficiency was sacrificed thereby The technique employed in the use of the 5-gm radium pack was designed to produce as nearly as possible the biological dose delivered by X-rays Expediency required that the distance employed in the use of the radium pack be such that the depth dose was smaller -about one-third that of the heavily filtered X-ravs In the case of the 5-gm pack, 17,500 mgm-hrs delivered in three and one-half hours at one sitting produced a threshold erythema Daily treatments therefore lasted one hour, 5,000 mgm -hrs or 30 per cent of the skin erythema dose being given to one of two portals each day Thus, each portal received an average of 2,500 mgm -hrs a day In the use of the small radium pack the factors of the treatment with the 5-gm pack were duplicated except that the quantity of radium used was different and the tubes were placed within the slightly smaller port The technique employed in making the applications is described in detail. In the use of the small pack it was found that while the optimal duration of treatment was twenty-eight days, the pressure of the pack was prohibited by the epidermitis after the twenty-third day Chinical observations were made and graphically recorded three times

With regard to the duration of the treatment the authors state that in the use of the X-rays with an effective wave length of 0 16 A U and a half-value layer of 0 92 mm Cu, a single dose produced an erythema which reached its peak in from sixteen to eighteen days. If these rays were administered at the rate of 200 r per day, the reaction was so intense by the sixteenth day that discontinuance of the treatment became necessary. Therefore it is postulated that from sixteen to eighteen days is the optimum time of protracted external irradiation

with rays of this quality
In the use of  $\lambda$ -rays with a wave length of o is
A U produced according to the Coutard technique
and a half-value layer of i 8 mm. Cu, the optimum

duration of treatment was from twenty-one to twenty-three days This finding agrees with the observations of Coutard, permitting the conclusion that the most effective type of protracted external irradiation is that which will produce an epithelitis and an epidermitis of second-degree intensity in which the epithelitis appears and terminates from five to seven days before the epidermitis. It is claimed that any irradiation administered later than the customary three or four weeks is directed at a tissue which is capable of not only resisting the destructive effect of the rays but also of undergoing reparative fibrosis while under bombardment Therefore, increasing the total dose much above 800 r when treatments have been unavoidably extended beyond twenty-one days does not seem to influence the response of the tumor On the other hand, if the duration of the treatments is too short there is a resulting increase in the seventy of the epithelitis

and epidermitis which necessitates reduction of the

total dose administered

In the use of radium gamma rays of an effective are length of 0 t A U as that which layer of 1 gmm of lead and a distance of 6 cm. threshold erytherns will be produced with a done of 17 gco roum hra. The latent period varies from four to six weeks. The destructive phase for gamma rays lasts for from twenty-eight to thirty days, after which time the tumor becomes markedly resistant.

The tumors studied included all types of car cinoma of the mouth and throat of varying degrees of mahemancy. It was found that many were not completely destroyed by the external irradiation and required interstitual treatment. Following protracted external irradiation the tumor bed in modified to such an extent that it cannot tolerate interstitual irraduation as well as the non-irraduated these. When such areas are treated by intenstitial irradiation they often tail to heal montaneously and bone within the range of the interstitual irradia. tion breaks down with prolonged exterminents. It was found that if a lesion shrank 5 per cent in from fourteen t mixteen days after the onset of the treat ment, it metally disappeared completely under the influence of external arradiation alone. When the shunkage was less than ; per cent, at the end of that time the external praduction was terminated and interstitial tradiation was admirastered as soon as the condition of the mouth permitted. As rule only a small dose of interstitial irradiation was regulred to destroy the remaining tumor but when the interstitial irradiation was delayed five or mx weeks a m ch larger dose as necessary for the same volume of treste as b the end of that time the neoplasm had become more rachoresistant. The study demonstrated that the problem of nateralitial prediction is important. It was found that external trraduation rarely eradicates the more common resistant carefoomatas or advanced leasons. Readual turne must be destroyed by intenstitual irradiation or electrocongulation or both

Il the regard to the duration of the daily treat ments the authors stat that the deal stradiation is an reduction administered continuously for t ent four hours a da over the lossest effects, time period. The small co-mam park meets this ideal by giving in thenty-four hours pproximately the same dose as is given by the 5 gm pack in one hour The uthors present tables showing that the small pack giving a dose of 43,000 mgm -hrs t each res produces slightly less intense epithelitis but a more intense condermitis than the large pack giving dose of 15,000 mgm hts over simila period of time They state that from 3 to 316 skin erythema doses of gamma rays deli cred by the large park re required to produce the reactions and results pro duced by from 5 t 75 skm erythems doses delt ered by the small pack. Therefore the small pack will produce biological effect of the same degree as the large pack a thorn So per cent of the

dose
The there findings and conclusions re sum manued as follow

In comparing the effect of X ray, and indexes gamma rays according to the technique rad no significant difference in the effect of these t raupon the tumor was noted. It required 4.5 size crythems doses of X-rays t produce the effect of 3.5 skin ervthems doses of gamma rays.

Inter and is more prolonged than that from X m.)

Gamma radius rays produce more profosed effect upon the normal issues around the timor which readers subsequent interstitud irredution

icas well telerated

3. The duration of the period of administration is the most important single factor in protracted external irraduation. Since each type of exopless has its own thythm of response, the atturney should be made to parallel this rhythm with soluble time duration for treatments. A delient adjustment of these ts. factors is essential for protracted ura duration.

4 The double small roo-myn pack producing continuous irradiation for twenty-four hours day is an efficient therapeutic medium which closely rivals the s-gm pack. A fastes Lasser, M D

#### Craver L. F. and MacComb, W.S. Hersfela's Method of Continuous Irradiation of the Earthe Body for Generalized Respirators I J. Rectional, 034, 3, 634

The Hendledn and in which continuous brokes for all passing was possible as established in May 93 but became of economic conditions are was discontinuoued in Sirry 933 A Combier tube operating at 85 by and 5 ms as an emonated that all 4 beta even at another that formed with a run of copper resulted in an intensity of per box for the number of and the same of copper resulted in an intensity of per box for the number of and the same of the same beds as 3 materia, and that of the Int Bock 73 ineters. The rollage of 85 k and the criteria of an acre reparted as opportunion for standardory

continuous operation, one t be rendering arrived for 7.8 hours. I addition t the ward, there as roost directly beneath the t be in which t as possible to treat patient intermittently t distance of 30 cm States patients who required a large field for treat

ment ere treated by this internation method.
During the period of the years, 4 patients in
creved continuous irreduction as the Heisbeller and
13 cases, the Heisbeller instances at the
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during the early day of the treatment, but as or
tam cases was gradiently increased in from offsition
for cred of the state ory themselves the structured
of strytherm or alopseus as noted between
the fields of the state ory the structured of
trytherm or alopseus.

the cases During the first few months detailed studies were made not only of the blood picture but also of the chemical constituents of the blood, the icterus index, the findings of fragility tests, and the basal metabolism. No significant changes were found in the chemical constituents of the blood. The blood cell and platelet counts were always watched carefully.

The radioresistant group of 25 cases included such conditions as mammary, prostatic, ovarian, renal, testicular, and tonsillar carcinoma. In this group the treatment was of only slight value except in a case of metastatic ovarian psammocarcinoma.

which seemed to show some regression

In the radiosensitive group of 100 cases were such conditions as Hodgkin's disease various types of leukæmia, lymphoid tumors, multiple myelomata, and Wilm's tumor All but 6 of the 54 patients surviving showed definite improvement and have survived for from three to twenty-four months since the beginning of the treatment. Of those who died later, 17 showed palliation Thus, of this group, 60 per cent showed appreciable improvement and 44 per cent were benefited and are still living Contrary to the usual results obtained with local irradiation, patients with chronic lymphatic leukæmia seemed to respond better than those with myeloid leukæmia. Such patients should be given relatively small doses not exceeding 15 per cent of the slin erythema dose in i treatment period of six or seven days The largest single group of patients were the 44 with HodgLin's disease Of this group, 30 showed improvement and all but 4 are alive Fourteen have survived for more than six months and 2 for more than a year The authors were impressed by the well marked and persistent tonic effect of the treatment and believe it should be employed routinely in Hodgkin's disease in conjunction with properly chosen doses of local irradiation for the bulky localized masses

Certain difficulties in the use of the described method are discussed. In cases of leukæmia a tendency toward thrombocytopæmia was sometimes noted. The development of leucopænia and anæmia is common. Bulky lesions often do not regress satisfactorily. In the latter case, local irradiation in smaller doses than if used alone may be

employed

Certain modifications of the method for further investigation are proposed, such as more intensive treatment of a single portion of the body with shielding of the rest of the body, the use of small doses of general irradiation supplementary to local irradiation, and the use of unfiltered or lightly filtered irradiation for certain generalized cutaneous diseases

Evaluation of the results obtained by this type of irradiation based entirely on statistics would raise the question as to whether similar or even better results might not be obtained by the usual local irradiation. As the method was new, the proper dosage had to be determined. The cases treated

were more advanced than the average case treated by localized irradiation. This report was made only a little more than two months after the last treatments. The authors believe that less attention should be paid to the figures and more to the impressions gained. They are of the opinion that while the method seems to be of little value in the treatment of the radioresistant tumors, it is an important addition to the treatment of radiosensitive tumors such as Hodgkin's disease, the leukamias, lymphosarcoma, and multiple myelomata. The results in chronic lymphatic leukamia and pseudoleukamia seem superior to those obtained by local irradiation.

Larl E Baeth, M D

### MISCELLANEOUS

Haas, M, and Lob, A. Short-Wave Diathermy and Its Use in Surgery (Die Kurzwellendiathermie und ihre Anwendung in der Chirurgie) Deutsche Zischr f Chir, 1934, 243 318

Short-wave diathermy, in contrast to the longwave diathermy used heretofore, is the therapeutic application of the electrical high-frequency

alternating condensor field

In long-wave diathermy (up to a wave length of 300 m) the alternating current is carried directly to the body by the aid of contact electrodes. To prevent burns and decrease the undesired resistance of the skin, the electrodes must be adjusted with as good contact as possible In short-wave diathermy, on the other hand, a large air gap is necessary between both electrodes and the body surface long-wave diathermy the period of the alternating current is still so low that the capacity of the wave components as compared with the conduction current determined by Kirchoff's law may be disregarded In biological tissues this conduction current, after having overcome the relatively great resistance of the subcutaneous fatty tissues and produced maximal warmth in these tissues, follows the paths of least resistance, namely, the blood vessels Because of the ramifications of the blood vessels, the deep tissues are reached only by a slight current and therefore are not warmed to any noteworthy degree

On account of the considerably higher frequency and the consequently greater di-electrical conductivity in short-wave treatment, it is possible, by proper application of the electrodes, to apply most of the electrical energy to the deep tissues of the part treated without producing too much warmth of the superficial tissues. However, it must be mentioned that in the development of the current in the deeper structures the differences in diathermy or short-wave frequencies are not so great as has been claimed.

The authors are of the opinion that the first and only effect of treatment in the high-frequency electrical condensor field is the production of warmth in the tissues. Others claim that there is a specific electrical effect. While the authors do not

doubt Pactsold's experimentally demonstrated spediest permit effect produced by high frequency waves, they are of the opinion that the bloodgial effects of the electrical condensor field which re described in the literature as specifically electrical should be designated as the specific effects of elec-

trically produced warmth

On the basis of theoretical considerations and experiments with models composed of lavers of electrolytes it may be concluded with certainty that in a stratified mechan a selective effect may be obtained in one layer with a certain di-electrical constant by means of a certain ave length, care cially a maximal increase in the temperature in this layer In body times only n pproach to such an effect can be obtained because the body presents no stratified medium of similar electrolytes, but very dissipular and inconstant relationships of size. Therefore the athors refuse to suggest a there peutically favorable frequency for definit disease on the base of the relation between conductivity di electrical constanta, and wave length or paessoremonts of the conductivity of high-frequency current in individual biological objects

The absolute values I di-electrical cousts to in human tasura are entirely unknown. Also unknown is the effect upon them of discuss. Measuring done of is difficult. In addition t the factors of wave length and these t is important to know the field stremeth. However measurement of this factor appears impossible. The authors attempted t determine the total field strength by repeated examinations of besignical test objects with the aid of detailed physical methods. However they state that with regard t the field strength in the interior of the objects nothing can be said because, on count of the inconstanty of the di electrical consta ta, it is subject t great variations. These difficulties may be murtually surmounted if a ben the field-strength dosage is pobed, the operator allows himself to be mided by the patient's subjective sensation of Following dosages not producing any poreriable or demonstrable warmth, no budogical reaction can be demonstrated even by histological

entimations. After these introductory remarks the others discuss the indications for and the therapeets mental is shown as a statement of the production of

fixons in progress infections, especially those of the skin. The authors state that their expenence does not support this claim. The results of abort in treatment by no means sarrant disregard of the basic surgical principles for the treatment of prosenic infections established by the school of on Bergmann, especially Lever Lyen today processes injections which do not yield readily to rest and protective dreadings must be opened as early as possible t establish drainage for removal of the bacteria and their toxins. As a rule short wa treatment should not be employed until after such intervention. Only in mild cases and at the bern ning of the filmens may short-a ve treatment be tried alone, and then all ays moder the observation and direction of a physician its surpost extremen

The authors review apperiences in different types of diseases Tendos-sheath phiegraous constitute a definite contra-indication to short wave treatment The authors strongly advise also against trying the treatment in scute supparative extensivents as valuable time is thereby jost for surgical therapy In acut supporative burelts, short wave treatment can be paccessful only after the burns has been opened Favorable results have been obtained in numerous cases of pentouitis. By prolonged treat ment which in one case lasted ten bours, alleviation of the choical symptoms at obtained, vis drop in the fever softening of the abdomen, improvement f the pulse and the passage of feces and fates In the treatment of joint tuberculous no lasting results could be obtained There was temporary during tion of the secretion from the fatule, but no bealing of the bone lealons. In cases of joint falery short a, ye diathermy finds numerous indications, but is these also it is t be considered only a sepporting emody Its results in arthritis deformans are not uniform Remerkably favorable results have been observed by the thors in cases of knobage. The tapidity of the effect and the simplicity of the treat

noist recommend this form of therapy.

A tole field for short-away therapy is presented by postoperative treatment is case of tendes surfaces, tendes-absulp hillerons, plants operations, and chesions after sholoushail operations in largard it the treatment of tenours, substantings of the recent in Estrich mome cancer articles that the treatment so that the treatment so that the tendes are the services of the services and the services of the treatment so that followed by more rapid great. It has fauled idea in case of moperable cancer of the treest in human soluteds.

(Inuets) Marmine J Server, M.D.

# MISCELLANEOUS

## CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Learmonth, J R The Surgeon and Pain Brit MJ, 1935, 1 47

From a clinical point of view pain may be classified as follows (1) pain due to a recognizable cause which cause can be dealt with, such, for example, as the pain resulting from the perforation of a peptic ulcer of the duodenum, (2) pain due to a recognizable cause which cause cannot be dealt with, such, for example, as the pain attendant upon inoperable malignant disease, and (3) pain of unknown cause, which can or cannot be abolished by surgical measures, such, for example, as the pain of trigeminal neuralgia on the one hand and the "painful face" that is not trigeminal neuralgia on the other. The author discusses the second and third types

Before the performance of any operation undertaken primarily for the denervation of a painful part, it must first be proved that a frontal attack on the lesion is impossible. This decision may be necessary under any one of the following three sets of

circumstances

The site of the lesion and the site of the pain are the same Under these circumstances the problem can be quickly solved by clinical examination alone or clinical and pathological examination

The painful area is more extensive than the local lesion, as may be the case, for example, when carcinoma of the rectum invades the nerves of the sacral plexus Under these circumstances care must be taken that the operation considered will not deal only with the visceral component of the pain

The pain is a "referred" pain and the lesion is distant and possibly not even surgically accessible In certain obscure cases of severe pain about the lower jaw, for example the pain is a manifestation of cardiac disease and division of the posterior root of the fifth nerve for its alleviation would be dis astrous

When operations for the relief of pain are undertaken the following two different anatomical arrangements of pain fibers are encountered according to

the somatic or visceral origin of the pain

Somatic pain fibers from the penphery concentrated first in nerve trunks and, possibly after passing through a plexus, spreading out over postemor roots and becoming concentrated in the anterolateral tract This tract is the most logical point of surgical attack as its proper division yields maximal analgesia with a minimal effect on other forms of neural conduction, either motor or sensory

or strands of one of the splanchmic nerves, spreading out again over the "roots' of the strand, and

possibly extending still further in the sympathetic paravertebral chains from whence they may enter the cord by way of many posterior roots and in the cord itself pass by one of at least two routes—the anterolateral tract and the ground bundles close to the gray matter The most logical point of attack on visceral pain fibers is the particular splanchnic strand in which they are first concentrated

Operations for the relief of somatic pain may be performed on the peripheral nerves, posterior roots. cramal nerves, and anterolateral tracts Division of the anterolateral tract to abolish the pain of incurable disease was originally suggested by Spiller The indications for this most valuable operation

may be grouped as follows

Pain due to the presence of an irremovable tumor which is pressing upon or infiltrating contiguous nerves. An example is the distressing pain of widespread malignant growths in the pelvis

2 Pain due to pressure upon nerves by bony outgrowths-as in spondulitis, for example-and pain due to arthritis-of the hip for example

3 Pain due to intractable neuritis, such as that of diabetes and that of neuritis of the cauda equina

4 Pain in amputation stumps of the lower

extremity

The technical point of importance is the avoidance of injury to the crossed pyramidal tract, which is posterior to the proposed line of section. The division is usually made after removal of the spines and laminæ of two vertebræ—as a rule, the third and fourth thoracic. In cases in which the pain is umlateral and is likely to remain unilateral a unilateral chordotomy suffices Bilateral chordotomy is necessary when (1) the pain is bilateral and when, though undateral at first, it is likely to become bilateral, as in malignant growths of the pelvis that involve first one and then the other lumbosacral plexus, and (2) the pain is in part visceral

In occasional cases even bilateral chordotomy fails to relieve visceral pain. In this group are certain forms of tabetic gastric crises calls attention also to cases on record in which the analgesia was not permanent He states that failure of the operation to produce permanent analgesia may be due to insufficient depth of the cut into the cord or, possibly, to sensations of pain pressing into service for their transmission the posterior columns of the cord-an example of the well-known biological

urge toward wholeness of the organism

The pain of angina pectoris and the pain arising from disease of the pelvic viscera are two types of pain which illustrate the anatomical and physiological principles involved in surgical treatment for the relief of visceral pain. The greatest concentration of pain fibers from a viscus is to be found in the

sympathetic strands in the vicinity of the viscus. In the case of the heart these are is the carducplexus, but a direct attack on this plexus is obviously out of the question. After the first concentration, a

spread over sympothetic roots accum over a vertical extent. The upper boundary of the spread is the junction of the superior cardate nerve with the superior cardate party on and the lower boundary the runus communicans of the fifth thoracts serve T extripted all of the nerves in this spread is obviously undestrable. However if it is remembered that the highest available sympathetic connection it of the first theoretic server of the run communicans of the first thoracter over the run communication of the first thoracter over the run communication.

It has been found possible to block afferent cards fibers outside the spanal canal by muccing alcohol I to and around the upper fiv thoracic ganglia of the sympathetic chain on the left side. This is not serious procedure. Many good results have followed its me It represents compromise between the ideal procedure of attacking t the most concentrated some which is associated with high risk, and attacking over wider front which is associated with a low risk. The first some of concentration of sympathetic fibers from pelvic viscers which is conveniently open to surnical track is the pressional nerve in front of the fifth lumber vertebre. In this nerve case afferent fibers connected a th the hind der the rectum, and some I the internal senital organs. As rule resection of the presacral perve can be done easily with minimal operative risk

This operation has been performed a th success in certain cases of intractable cystitis and in the pullistive treatment of looperable maj guant discuss it the bladder. It has been done also for the relief of intractable dynamerorthese in which the pain is of colicity type. Cases of this condition must be very

carriedly elected
In conclusion Learnouth says it is by no mean certain that the brendrail effects of the operation rade directly it the drawnon of pain fibers above, although these are undesthedly present in the extra probably the drawnon of visionistractor identifies the traverse the nerve distance of the interaction of the confinementary of symptoms to the confinement of the drawnon of visionistration of the confinement of the drawnon of the confinement of the c

Kirsch, O. Invegisation and Spaemophilis (Isragmation and Spaemophilis) Argels of uses Mai 934, 47 and

The other reports case of the disc and theorems lavgination in a seven-months old infant with marked, though latent operatophilis. This case supported the theory first, demand by Goldschmidth et spannophilis is the case of the marked contraction ring described by Nothingel and Propping as the manipuned cases of corrugations.

Kirsch also cites a number of observations recorded in the literature which tend to show that intestinal invagination has an evident relationship to totany (frequent spartic obstinction, sharelyes narrowing of the pupils, deliring, orbithotomes. cramps, mechanical contractures of the extremules. and spasms of the sigmoid florure and same) H calls attention t parallelisms between the two dis sees. They occur in the same are period (the first year of hie and the first half of the second year) twice as fractiontly in the male as in the female, and especially in robust and apparently well-sourshed children In both conditions there is a tradeur. toward grouping, that is, frequent occurrence on consecutive days, and the same seasonal curve which gradually rues to reach peak in the spring. le low from August to the first helf of November and then rises wan until the end of the wes. However in tetany the curve reaches its lowest point two months earlier in Tune and July. The course of this seasonal curve suggests that invasination is due to vitammods, experially as keratomakou shows an exactly identical curve. This approxima is enpoorted by the greater-frequency of the condthou in males than in famales, which is found in all types of avitaminosis the greater freedency of the condition in more robust bodies which require larger supply of vitamins, and its frequency is sefants, who remure a large sapply of vitagins for maximal growth. Also like other syltaminous, both tetany and invariation became more froment dur ing the postwar period. The gastro intestigal deturbances in the preliminary period of invagination and totany contrade with the findings in other vitaminous (ben ben, pellagra, and erythrodermia) The goographical distribution i myaginetion and tetany is also similar both of these conditions being most common in England, America, and Denmark. In the Anglo-Saxon race, they may be related to consental racial qualities ( tail and almoder stature) or to see going with its dangers of vitaminosis, or t certain national food labits The question as t whether invagination is t be included in the spasmophilic syndrome can be solved only by further chemical studies of the blood and ralvanic irritability

and gavenic transmity

Alize Reyer polated out the resemblance between
tetasy and bert bert, the thor called attention to
the resemblance between tetasy and pedagra. At
both of these conditions are produced by a tick of
\(\text{tixtum B}\) it seems reasonable t seek the case of
spacesopolium and perhaps also that of invarigations

in this group of conditions
(SERVERS) JOHN W. BERRYLE, M.D.

Freezont, N. E. Hamorrhein in Relation to Sharck. Ann Surg. 215 484

From experiments which he performed on cets and reports in detail the thor draws the following conclusions

I manusthetized cats the increase in the rate of the deservated heart after himograph is due to the hypersecretion of epinephrin No increase in the rate occurs when the adrenals are previously inactivated

2 When saline solution is administered intravenously, the increase in the secretion of epinephrin resulting from hæmorrhage is inhibited only slightly and temporarily and the elevation of the blood pressure is only temporary

3 When a 6 per cent solution of gum acacia in saline solution is injected intravenously, the increase in the secretion of epinephrin following hæmorrhage is inhibited to a greater degree and the elevation of

the blood pressure may be sustained.

4 When the blood lost is re-injected, the increase in the secretion of epinephrin resulting from hæmorrhage is well inhibited and the elevation of the blood

pressure is permanent.

5 If hæmorrhage initiates sympathetic hyperactivity of sufficient intensity, the resulting vaso-constriction leads to further diminution of the volume of circulating blood, probably through stagnation of the blood in the splanchnic area and the periphery Such a process leads to shock. With restoration of the volume of circulating blood sufficient to inhibit the sympathetic stimulation, the vicious circle is broken and recovery results

6 Adequate treatment of hæmorrhage requires early restoration of the volume of circulating blood to inhibit the sympathetic activity before a further loss of circulating blood occurs through stasis

HERBERT F THURSTON, M D

# Babcock, W W Catgut Allergy Am J Surg, 1935, 27 67

The author states that too little attention has been paid to the probability that many human beings are susceptible to catgut as allergic reactions to sheep serum have been demonstrated frequently. He believes that the allergic response may be due also to the presence of bacterial products or a specific toxin or both. In support of his theory he cites the frequency of the phenomenon in thyrotoxic patients and the improvement in wound healing that has occurred since the more extensive use of silk. He believes that many of the recurrences following the repair of hernix may be attributed to weakening due to a catgut reaction with local necrosis about the suture.

With Pratt and Small, Babcock carried out a series of experiments on 120 individuals to determine the reaction of the skin to various suture material buried just beneath the surface Chromic catgut produced a flare and wheal after twenty-four hours. When plain catgut was used, the same reaction was noted but was less marked. A reaction occurred in all of the patients tested, but varied in degree in different individuals. When rustless steel wire was used, very little reaction occurred even when the wire was buried under a cast for several weeks. The author states that fine rustless steel wire is stronger, smoother, and less irritating than any other suture with which he has had experience. He regards it of

most value for plastic operations for the closure of cleft palates, colostomies, and various types of fistulæ, but recommends it also for ligation in cases of infected wounds

In summarizing, he says that chromic catgut may produce allergic reactions in the tissues which retard healing and may lead to wound disruption, and that No 00 plain catgut may be extruded from the skin many weeks after its insertion. Silk is still the suture of choice for use in thyroidectomies, but annealed rustless steel wire is worthy of more extensive trial as a suture and as a ligature in septic wounds.

Cornelius J. Kraissl, M.D.

Prussia, G The Question of the Filterability of the Tuberculous Virus in Surgical Tuberculosis (Sulla questione della filtrabilità del virus tubercolare nelle tubercolosi chirurgiche) Ann ital di chir, 1934, 13 1075

Prussia states that it is still debatable whether the tubercle bacillus has an ultravirus, and that the interpretation of experimental lesions produced by cultures or tuberculous material is also very uncertain In reporting experiments which he carried out to attempt to clarify some of the obscure problems in surgical tuberculosis, he describes in detail the methods he used in obtaining the tuberculous material, culturing it, filtering it, and injecting it into animals In twelve instances the material used consisted of pus from cold abscesses, in two instances of exudate from a tuberculous empyema, in one instance, of exudate from orchitis and epididymitis, and in one instance, of the urine of a patient with renal tuberculosis To control the specificity of the anatomicopathological lesions of the ultravirus, two guinea pigs were inoculated with a filtrate of diagnostic tuberculin Therefore seventeen guinea pigs were injected with filtrate, seventeen with ultrafiltrate, and two with tuberculin In each case senal transplants were made to a total number of seventy-six animals Prussia concludes that the lesions found in the splenolymphatic system were caused, not by a virus, but by toxic elements in the filtrate and ultrafiltrate as he discovered similar lesions in the animals given injections of diagnostic tuberculin EUGENE T LEDDY, M D

Jackson, H., Jr., and Parker, F., Jr. Agranulocytosis Its Etiology and Treatment New England J. Med., 1935, 212-137

The authors discuss agranulocy tosis on the basis of the literature and 103 cases which they have observed themselves. They state that the literature is at times confusing, opinions are divergent, and recorded data are not accurately tabulated. They conclude that while it is as vet impossible to state dogmatically whether agranulocytosis is to be regarded as a disease entity or a syndrome, the occurrence of such a disease entity appears probable. The etiology remains uncertain, but amidopyrine and related drugs seem to favor the development of the condition in certain cases.

macleoride

The pathelogical changes in the bone marrow consist of arrest of maturation t the stem cell stage. Later in the course of the condition the proviousl exacting stem cells are replaced t extent by plasma cells and lymphocytes

In the treatment, careful asenes, adequate nursing, and intelligent general care of the nationt are emential. At the present time the best method of stimulating recovery of the bone marrow is the intraminecular or intravenous injection of pent

In conclusion the authors state that until the nature ethology and pathology of agranulocytosis are determined definit by the diagnosis, treatment, and prognous of the condition must remain sais france NAMES I LEGISLATION M.D.

#### Willis, R. A. The Structure of Teratomete. J. Path & Backeriel att. 40

Teratomata have been attributed to internal twinning, the problemation of dialocated or super numerary blastomeres or other early emberone cells or call groups, the growth of fertilized polar bodies. the parthenogenetic or ephenogenetic proliferation of smadel or extragonadal garm cells, and developmental errors affecting the primitive streak and early axial structures of the embryo. None of these theories is wholly satisfactory or has been definitely proved

Willis reports a study in which fourteen teratomata were examined by the senal slab method and the distribution and relationship of the component

trasues determined He states that in the identification of many f the times in these growths difficulties are encountered An intimate knowledge of the histology of both adult and embryonic tusions is necessary Immature glandular and muro-epathelial tumoes are readily confused with one another Union accompanied by hair follocles or cutaneous glands, stratified aros mone epithelium cannot be identified as epiderioal since squamous metaplasia frequently occurs in the whend her components of teratometa. Function in teratomatous theses - secretion, hematoposous, movement, nervous activity-is of interest in connection with the problems of the prefunctional and

hactonal differentiation of timeses Teratomata of the tests are almost always mangnant With rare exceptions the malignancy involves ma y or all of the component tresses though per

hapa in different degrees

Most teratomata present no mess f somatic axia tion, segmentation, or delamination of germ layers They possess no organs or true sometic remons They exhibit an anothelous excess of certain com poments and an anomalous absence of others, ab normal mixtures ad relationships of timues, and the co-customes of turners of widely different degrees of maturity Because of these facts theories hesed on the idea that terratorns is homologous a th fetus must be rejected. Therefore the twin inclusion and parthenogenetic hypotheses must be rejected

Incomplet examination of a teratoma may give me to the erroneous impression that it resembles feter Tustue correlations probably similar to those obtaining in normal ontogeny are evident in tentomats \srious growing epithelis poesr to induce specific changes in associated plantic mesercayme. Certain glandular epithelia evoks the formation of smooth muscle young central actyous these crokes thoughtfication tooth development exhibits its characteristic and complex these torrelations, remiratory rauces induces the formation of carilage, nervous tissue induces the formation of a meninz-like sheath or of ners sheath elements. epiderum laduces the formation of demais, and or tain muched entitedle induce the formation of hisphold tieses

#### GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INFECTIONS

HERRITE F TRUBERON M D

Bickel, G. Colon Bacillus Septicacula. A Study of Its Pathogenests and Choicel Aspects (La colbeciliose Etade pathogénique et christae) La mil de la S um Rem 914, P

The important role of the colon becilius in tenthose chantees has been recognized only takin the last doesn years, that is t say slace the work of Heita-Boyer on the exterorenal syndromer Toda the term colon bacillous is applied to acut and tabacute septicerulas and group of less well defore states indicating a generalized invesion of the w request by the color bacillus - th electrys localitytion in the annery tract, the bihary tract or the

DECTORS BY SECON The colon bacilius may change from one form to another It is extremely resistant to beat, desicution, light, and most anteroptics, and remains visible n water ad soil ver long persods. It gres well to all culture media and even in arms. It is bate affected by changes in hydrogen ion concentration lts metabolic products and de ammo anda, am-

tronta undol, scatol, and phesol

The virulence of the colon buciles as normally low, but varies greatly An acresse in virglence may be due to ta association with more virulent bacteria or decrease in the vitality of the timper ith hich it is in contact. The torins studied since they by Calbert show merked affinit for the nervous system and the gastro-intestinal tract. Viscent is cently has moisted an exotomn and an endotomn, the former neurotropic and the latter enterotropic. The endotoria causes arraptores of intestinal irritation and durribors. The exotoxin is found in young cultures, but the endotours occurs only in old entures These tomas are entirely independent of each other

The physiological role of the colon becilies has never been determined, but it appears that harmful effects are never produced by this bacteriors is the absence of abnormal permeability of the intestrat The presence of colon burill in the blood and these chimination by the amount or biliary tract are left transitory memiestations of change in the intenter

froming the absorption of the bacilli and various

The colon bacillus is not the only usent of into infections of intestinal origin. In about 20 per cent of such infections the enterococcus and less fre toric substances quently, Friedlichder & breillus 2 etreptococcus 2 stably lococcas or a business stretune in admit

prihogen Moreover the abnormal permeability of the intestine may be limited to toxins, the term praffore being inapplicable under each circum

etance:

Acute enterocolitis due to the colon bacillus is common It occurs most often in infants and fre quently assumes an epidemic character. The infection may be localized in one part of the intestine. It is localized with special frequency in the region of the appendix Whether or not the primary condition is appendicuts is problematical However, the colon bacillas is found frequently in pyclephlebitis and abscesses following appendicities and is the organism restrict from the blood most often in septicimin following that condition Localization may occur also in the bihari passages Blood stream infections are usually due to stasts in the right half of the colon which, like an experimental ligiture allows the or grains to pass through the mucosa and increases

The symptoms of colon bacillus septica mia are the absorption of bacterial products extremely ramble Vlarge number of forms of the condition have been distinguished on the basis of either the localization or the dominant symptoms The author enumerates most of the ills that were formerly recribed to auto-intoxication herdaches, dysmenorrhan and other endocrine disturbances, vacomotor disturbances and slight fever and classifies them into urinary, hepitic, and nervous disturbances Most definite appear to be the urmary disturbances in the form of bacilluria and pyuna Intelligent treatment requires a preliminary study including most of the tests known to clinical path ology to which may be added a thorough study of

The treatment is long and arduous. It should be the intestinal flora and its products directed first to the intestinal disturbance that is to the stasis and should consist of the usual regi ALBIPT I DEGROAT MD

mens recommended for spastic colitis

Sauve L A Contribution to the Study of Surgical Septle emla of Exclusively Staphylococcal or Septierenia di cacia sentomatologi (con tribution a Letude des septicemies chirurgicales à staphylocoques et a streptocoques exclusivement Suprissional Rull et mém soc nat de chir, 1934, Semicologie)

The author defines septicemias as general infec tions in which there is an intermittent or constant discharge of pathogenic bacteria into the blood stream with grave general symptoms due to the dis semination of the bacteria or their toxins in the viscera He states that in the study of septicæmias

frequent cultural studies of the blood should be made it varying intervals in relation to the chills with the use of frirly larke amounts of blood. How ever, he regards the chineal indings of more importrace in the directors than the laborators notings especially when the blood cultures are

Both staphylococcie and streptoroccie septica mia mat occur in a fulminating form of a prolonged form Most common hovever, is the acute form negitive form alose common not ever, is the name form developing in 1 few days or weeks which preses through the following three stages an initial stage in which the infection is local, a second stage with the intermittent discharge of bacteria into the blood etream and a final stage of pollution of the blood stream and a man stage of polition of the blood stream by the bretern. The stage of incubation is stream of the officers the stage of meanwith is rately recognized clinically. It ends, as a rule, with the first chill Thereafter, the exmptoms depend entirely on the manner in which the breteria are

In cases of streptococcic septicemia two very unfavorable signs are a painless gassy distention of diseminated in the blood the abdomen and the occurrence of organic changes with congestion at the bases of the lungs, anuria, extreme acceleration of the pulse rate, enlargement of the liver, and a subicteric tint of the skin When either of these signs appears, death is to be expected in a few days. The favorable prognostic sign is ces eation of the chills with gradual slowing down of the

A rather rare form of streptococcic septicemia is observed in certain pyrmins and a chronic form with certain medical diseases Of the three evolog pulse rate ical factors—ceptic infection, infection at operation, and post abortal infection—the last is the most

The staphylococcic septicaming are of two main types—the acute which resembles the streptococcic in its 51 mptoms and the septicopy amic type. The dangerous latter is characterized by metastatic abscesses, cutaneous eruptions, phlebitis, arthritis, and periods of remission which may be followed by acute recru 1 third type-1 prolonged form with multiple abscesses—may be distinguished. For the diagnosis of this type the same strain of staphylo coccus must be found in all of the metastatic ab scesses This type is especially serious when the abscesses occur in the faciobuccal region WILLIAM C. BICK, M.D.

Kavanaugh C \ Tulvremia A Consideration of 123 Cases, with Observations at Autopsy in One 1rch Int Med , 1935, 55 61

Of the 123 patients whose cases are reviewed, 60 vere males and 54 were females ports the autopsy findings in I case According to deaths, a mortality of 4 per cent his classification, 108 of the cases were of the primari cutrneous type 6, of the primary ophthalmic type In 58 cases in which the incubation period was determined defi and 9 of the cryptogenetic type nitely, it averaged four and a half days

Sittem cares presented palmonary involvement. The breats as involved in 2. Through in the velos were found in 1 case. Houring was a complication in 6 cases Antoninal symptoms were prominent for 5 cases. Peritorities was present in 1000 to 1000 to

(8 y per ceat) The author gives brief review of the literature and discusses important facts pertaining t the literary epidemiology pathology disgnoris, and treatment of the condition

OTALDER H. N. DLER, M.D.

Sporrt, R. Investigations on the Action of Amaobic and Aérobic Bacteria on the Survivage Small Intrastine of the Rabbit (II tensackopen scher de Wirksan sacrobor and scober Bakteren and den seberisbended kanseken Doomsdarn) ett Zurch Desertation

The difference in mode of life of actobic and anaerobic battle ruses the question whether as consequence, different substances, varying from one another in their action, may not be produced in the nutrient in the modium. The questiones which Spoteri attempted to asswer in the investigations on which this dissertation is based or it be follow

The products of metabolism contained in different bacterial cultures surer any action on the smooth misculature of the small intestine of the rabbit which differs from the action if sterile

bomiles?

2 Do these actions of decomposition products differ only for the ts. large groups, or can differ ences in actualty be demonstrated even to the differ.

ent kinds of bacteria?
3 Are the possible differences only quantitative

or be qualitarive

In the result affected by the age of the culture

Does the composition of the autrient medium

Does the composition of the nutrient mer

6 Is the action of the metabolic end products formed in the medium exerted on the muscle cells directly or by way of the sympathetic servous system.

In his studies the author was of course camble to investigate the addrence of defaute channel compounds. In such investigations it a necessary it recognize the fact that a rar always dealing with a mature of substances. We therefore obtain only a summation effect, and if the authorisian smitten a belance, this may be not in spite of the presence of active substances. However there is also the possibility that one product may be much stronger in its physiological action than all of the others. The pparatus med by Spoersi was a medification

of the apparatus of Guggenheim and Loeffer. The investigations were carried out on the survivine small intestine of the rabbit Oxygen as latro. duced into one end through a capillary tube and the other end fastened by fine thread to the arm of a recording apparatus. The preparation to be tested was brought into contact with the latestine mixed with Ringer' solution. In the investigations on the infinence of age, meat extract prepared by one and the same method was used in the preparation of all of the bouillous in order to avoid difference in the material of origin. The inoculation of this field with fresh li et-houillon cultures of the same stress of bacteria was done for one series at the same time and the culture obtained after incubation for one, three, six ten, and twenty days were used for the experiments. For every sense of experiments 4 certain quantity of the same bouillon was renoved on each of the days mentioned and kept under the same conditions for use as a control. For the prepa ration if macroates and filtrates. Scoomi empired s liter retorts with large quantities of culture which had been inoculated with the same strains. The incubation period varied up to ten day. In the preparation of the filtrat the culture as cratrifa galized, rendered free of bacteria by means of a Selts filter and then used unmediately The central ugate was washed three or fou times with physic logical sait solution until the yellow that of the centrifuge fluid had dusppeared It was then mixed with from to cm of stanle water and frotes three or four times. The precipital from a himwas diluted to so com with physiological salt saletion and this finid brought rate contact with the intestine in Ringer' solution in amounts of from 1 o com

The effect of these different preparations on the activity of the linestime is attached. Its regard is the amplitude of contraction, toom, and freperey, after testing the movements of the stateme in Ranger' solution, alone and following the udotted of sertycholor, pickcrafts, but derends at all offerent certains of the parameters, Special learn the influence on the intesting of stretch boudden in the forms of system-performe boudden and cystem performs bounded and cystem performs and cystem perfor

The results of the experiments with the deferred indicate bouldon were in general scientical. Next all three kinds of bouldon err oract, as falled decrease in contraction expirates and reasonable followed by receivery in which the contraction sample is the shore normal and the towar reaches sortful in general, the frequency remarked such contrail in general, the frequency remarked such

Support of the control of the factor of the comparative experiments showed that there typical resistants were due to active substances already persent in the most extract and not it he added cystels, peptons, or glacore. The bombos affect underlay the action of the further addition.

of adrenalin pilocarpin, and acetalcholin assumed that the action of these drugs is exerted on the muscle cells not directly, but by way of the Honever moculation of the nervous elements described nutrient media with a culture of the paraanthrix bacillus showed great differences between the nutrient media and the exstein peptone bouillon culture. The addition of the drugs named could no longer suppress the effects of the cystem peptone products. The existent peptone cultures contained at first partitizing substances. Twenty day cultures contained tonic substances. A one day culture was After the first week, the without definite effect eystein glucose bouillon culture exhibited an action increasing the contraction amplitude and after the ninth day an action increasing also the tonus. The peptone bouillon culture showed a slightly tonic action. Therefore a paralyzing action was present only in the case of cystein bouillon cultures and a tonic action in the case of old castein peptone bouillon cultures and young peptone bouillon cultures. Comparative tests with acetylcholin, pilocurpin and adrenalin showed that the less toxic substances which were present in a para anthrax cul ture exerted their influence on the nervous system, whereas the mechanism of action of the substances with a strongly paralyzing effect vas not explain able (it was impossible to determine whether the action was direct or indirect). The active substances passed over into the filtrate, but vere not demon strated in the macerate

The author is inclined to ascribe the paralyzing action of his cultures to various decomposition products produced by the para anthrix bacillus but

not to the specific para anthrax toxin

Investigations carried out with the Novy bacillus of malignant adema wielded results that were essentially the same as those obtained with the para anthrax bacillus. The active products could be obtained from the existen peptone bouillon culture. The macerated bacteria had no action. The filtrate had the same action as the whole culture.

In investigations with the anthrax bacillus (bacillus chauvoer) a cystein peptone bouillon culture used at the highest point of toxicity produced as did also filtrates of this culture a tetanic effect. The production of this effect continued until the tenth day of the culture. The culture then rapidly became ineffective. The influence was exerted by way of

the nervous elements

When tetanus cultures were used the intensive action of the cystein peptone bouillon culture (paralysis) was present only during the first few days and then vanished, a fact proving that the cause of the paralysis was not the true toxin since the latter did not reach its greatest activity until after ten days at a time when the peptone cultures were almost inactive

Spoern discusses the action of methylamin, indol, and diamine

The investigation of acrobic bacteria by the same method yielded the following results

The one day old and three day old cystein peptone bouillon cultures and the one day old exstein glucose bouillon culture (paratyphus Gaertner) produced paralysis. In the case of the first, the reaction occurred on the addition of as little as o command in the case of the last on the addition of some it is therefore apparent that in these experiments also the degree of the paralyzing action paralleled the peptone content of the bouillon and was not dependent on the quantity of toxin

Investigations with fowl cholera showed results that differed only slightly from those obtained vith sterile bouillon. On the minth day, the cystem peptone bouillon culture in an amount as small as a central script of crusing a marked paralysis of the intestine. Up to that time a stimulation was manifested. In these experiments also the dependence of the amount of toxic substances upon the

peptone content was apparent

The findings may be thus summarized. When sterile bouillon was used the course of the curvewas always the same whether the bouillon con tuned exstem plus peptone or glucose or only neptone. In the end effect there was a very slight increase in the contraction level whereas tonus and frequency remained at their initial levels effect was brought about through substances con tained in the unmodified meat extract. The age of the bouillon was without special influence on the result. As the bouillon effect was alrays eclipsed by the effect of the added drug, an injury to the muscle cells could be ruled out with certainty grown cultures were idded this picture changed completely. Under these circumstances an important part was placed not only by the age of the cultures but also by the special additions to the bouillon. Moreover there appeared certain differ ences in mode of action from bacterium to bacterium in respect to the direction and the degree of the change, but especially in respect to the minimal dose by which the typical reactions were elicited One clear fact demonstrated was that with all bacterial additions the existent peptone cultures showed the most intensu action, in comparison for example, with the cystein glucose culture. In the case of the cystein peptone culture the most intensive action consisted chiefly of a general paralysis which appeared either on the first day (Novi tetanus, and Gaertner bacilli) and disappeared soon (sixth day), or appeared only with older cultures (sixth to minth day) (para anthrax, foul cholera An exception was found only in the case of the anthrax bacillus, by which the amplitude and frequence of the contractions were diminished and the tonus was increased (tetanus), a picture which was produced only by twenty day-old para anthrax cultures On the addition of small quantities of culture there were bivalent actions, an increase of the contraction amplitude, sometimes also an in crease of tonus (fowl cholera Guertner, and Novy bacilli) either with old cultures (twentieth day in the case of the para anthrax bacillus and the anthrax bacillus, fifteenth day in the case of tetanus bacillus, and math day in the case of the Gaertner bacillus; or very young cultures (fowl cholera bacilli p t the third day)

I difference bet een the ction of amerobic and aerobic bacilli as regards the production of minimal active doses was not apparent. The cystein-glucose culture, which contained only one-tenth as much peptone as the cystein-peptone culture, produced chiefly an increase although it for sished excellent conditions for growth of the bacilli lionever there was lack of the peptone necessary for the elaboration of toxic substances. The author is inclined to excribe the action of his cultures entirely to the production of lower decomposition products of protein II calls ttention to the opposite behavior of the earl formation of toxic substances in the colture in contrast 1 the slow formation of the specific toxins. He states that for the elaboration of the active toxins in the cultures orygen is not necessary it determines only whether the means is given to living creature t break down protein bodies in this or in that w y The ways are numer ous (decarboxylation, splitting off of mino-acids with almultaneous reduction red ction and deaminisation, hydrolytic de-aminisation, alcoholic fermentation). Of the products arising therefrom, which are sumerous and varied, the infres, methylamine, dungthylamine, trimethylamine, and diethylamine, are of the greatest physiological importance next t histamine The pharmacological action of the primary secondary and tertiary amines consists mainly of a central action, narcous and paralyels. The higher amines possess sympathicomi metic action similar to that of adrenatio. In general It may be said of the ction of products of protein decomposition that excitation appears after small dones and paral siz after large doses (Weichardt) The lavalence of the actions was shown also in Sports a vestigations Excitation was manfested on the dention of culture with shight activity (fresh and very old cultures) and parely an on the addition of culture with marked activity

From the investigations at histories and wascents at appears that the active makinance are not present in the bother of the interest but are to be found the filtrate. The simulating effect is produced, not by direct ctoon on the musica cells, but by an indurent action on these cells produced through the nervous elements. Whether the purely-stay action is active that the contraction of the larger does hive his elements upon the produced through the most produced through the most become depends upon across action has not been determined, but the possibility instruction the musical cells must be considered.

#### DUCTLESS GLANDS

(LORDER) PLORESCY ANNAH CARPENTER

Roset, G. Experimental Emdies on Surgery of the Parathyroids (Roseths systmetish with chirage delle paratroits). Arch siel di cher. 934, 35–5.

Mandl was the first t emove an adenous of the parathyroids in case ! Reckinghausen's disease

with brilliant results. If concluded that hyper trophy of the parathyroids is the cause of Rerikoe beasen ducase that the parathyroids are the chief regulators of the distribution of calcium and possibly also of phosphoras and that hyperfunction of these glands cames decaleracation of the bones with an increase in the calcium in the blood and increased elimination of calcium | the orine This theory led to the performance of parathyroldectomy in numerous diseases in which there is metastatic calcifestion or increased density of the connective these due presumably to hyperfunction of the parathyroids knoon these are rhizometic spondylosis, chronic ank) losing rheumatism, scierodermia, keloid, meta static calcification of the lidneys, and contraction of the palmar poneurosis

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White the results have been good is some of these
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have been recognized. There are cases of Rechingharmen's dissause software by pretrapply of the paratithyroids, and case of hypertrophy of the paratithyroids, and the case of hypertrophy of the paratithyroids are not on the pretrapply of the paratithyroids are not as the control of the paratithyroids are case of the predict principle of protractions on the next. (thout removal of the
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In an effort to explain these facts and study the function of the parathyroids the author performed series of nuneteen experiments on rabbits and dogs I some of them he bruised and injured the tayrord and parathyroids without removing them and without mounts the vessels and nerves, and in others be crubed or sectioned the serves supplying the part thyroids. If found that simple operative trains and resection of the vagorympathetic trunk is the neck did not cause any changes in the structure or function of the parathyroids, but that perfertered sympathectom of the superior thyroid artery or removal of the superior cervical guardion was fellowed by temporary decrease in the calcium context of the blood due probably to decrease of para-AUDREY GOM MORRIE, M D thyroid function

#### EXPERIMENTAL SURGERY

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#### SURGERY OF THE HEAD AND NECK

#### Head

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## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

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Supplementary to

Surgery, Gynecology and Obstetrics

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## INTERNATIONAL ABSTRACT OF SURGERY

JUNE, 1935

## ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### HEAD

Theodoresco D, and Hofer, O Cancers of the Cheek (A propos des cancers de la joue) Presse méd, Par, 1934, 42 2040

According to the literature, carcinoma of the cheek is very rare and very malignant, its treatment is difficult, and the results are poor. The authors have studied 40 such carcinomata. As these were found among 700 buccal tumors, their incidence was 5.71 per cent. This practically agrees with the incidence given by Kuttner (5.63 per cent), but is considerably lower than that given by Channing (14.18 per cent). Leucoplakia is believed to be an important pre cancerous lesion. Most of the tumors reviewed had their origin on the buccal mucosa. Among them were a melanosarcoma, a cylindroma, and a basal-cell epithelioma. They were of high malignancy. Larly treatment is important.

On the basis of the statistics of Berven, Channing, Lund, and others and their own experience the authors believe that surgical treatment is far superior to radiotherapy. They state that the exposure should be wide. Block dissection of the lesion and the regional nodes is advisable. The cosmetic result is best when this is done through an incision made in the midline of the lip and chin and extended horizontally to expose the cervical nodes. Wide excision may necessitate the use of a cervical flap for repair. The lymphatics follow the facial vessels in close proximity to the periosteum of the mandible.

Of the 40 cases reviewed, operation was performed in 37. Lymphadenectomy was done in 30. In several, the mandible or maxilla was included in the resection. The authors favor immediate repair of the defect. Depending upon its extent, they repair it with adjacent tissues or with flaps from the head, neck, or elsewhere. To replace the mucosa they have used Thiersch grafts over a stent mold as suggested by Esser.

Regional anæsthesia is generally employed, sometimes with avertin as a base. In the cases reviewed

the early mortality was 3 deaths. Two of these deaths were due to pneumonia and I was the result of septicamia. One of the prtients who died of pneumonia had erysipelas. The late mortality was 70 per cent (26 deaths) Sixteen (43 2 per cent) of the patients developed a recurrence (48 6 per cent) remained free from recurrence during an observation period of from five months to fifteen Lymph node involvement has prognostic importance Ten patients had no palpable nodes, 10 had soft palpable nodes, and 20 had hard palpable nodes In 3 of the latter the nodes were adherent In 11 cases restriction of jan movement resulted from the operation and necessitated a secondary plastic procedure for its relief. In 5 of the 9 cases in which the best results were obtained no radiotherapy was given THOMAS W STEVENSON, JR., M D

#### EYE

Ramsay, A. M. Clinical Science and Ophthalmology. Bril. M. J., 1935, 1. 239

The ophthalmologist is generally consulted because of ocular pain or some disturbances of vision. Ocular pain is usually a danger signal and may be of inflammatory or non-inflammatory origin

Pain of inflammatory origin varies according to the site of the lesion. Superficial lesions cause pain of a sharp, cutting type which is aggravated by hid movements, whereas deep lesions cause pain of a throbbing or gnawing type which radiates along the branches of the trigeminus nerve and is most severe late at night or early in the morning. In the diagnosis consideration of the character of the pain in conjunction with other signs is of importance.

Before the development of physiological optics, non inflammatory pain was classed with asthenopia and regarded as incurable. As long as asthenopia was studied by the observational method alone, no progress was made. The optical instruments invented by Helmholtz and the clinical studies published by Donders in 1864 demonstrated the abnormalities.

responsible for it. Denders was able to accomplish so much because he was an ophibal needpit as well as a physiologies. Closer cooperation between the laboratory worker and the chaircian results is improvement in the arrowance to reliable problems.

The retina is peculiarly susceptible t pathological inflornces. Accerate investigation of fight and color sense may reveal the first ladication of a disturbance of vision. The least amount | Ught carebic of range ing a sensation is the light minimum," and the artallest perceptible increase in brilliancy of one of two lights is the hight difference An increase in the light minimum is evidence that the rods and cones are defective. An increase in the light differ ence ladicates a delect in the conducting systemthe inner layers of the retina with the ganglion cells and nerve fibers. Of equal importance is the capillary supply. The rods and copes are supplied by the chorioranillaria, and the sanction cell and I not layers by the capillaries of the retinal costs.

The high minimum is always disordered in dismass which interfere with the circulation in the chorkecapillaris, preventing soomal representation of the visual perspice. A lacroscale in the light minimum occurs with age and with the computative effect of toole substances in the blood. In primary fusionman it is one of the earlier signs. In the early stages is to treasless that the tracts of dimense of tions and

the personne of colored rings around a light. What higher as due to retiable primarious which may be heredulary and congrents. When it securs in adult a without the appearance of primarious parts are rings at the result of the security changes on the retiable than be due to due to higher even I jury and realization. If can be produced expenses tally with a deet defectent litating a Kentulius premeators as a presented disease resulting exeminally in complete los of vision. Roy le has been able to true some relief by drading the therace or myathetic truth. I the level it the second threath gandyout II given generation.

has been suggested by Young more feetfule. A patient who has a corress the brich difference sees best as dell light in bright light withinh 100 most interference with lear a deal P the proportion of an inverse on large difference in a certal accordance for the control of the control of the control of the control of the deal of the control of the con

preca i look like abert.

Large proport of cases the trapteen of due to swelfful groce in tobacco and krobol, but there exist also total butainers in a case they are due to the a two of total submitter of a set of a set of the trapteer of a small between lost of a six and set of the trapteer of the tr

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diagor of blindsen. The live of mole and cover in monephilic teverty publishers limit arrest or disdestroyed. The finer is sen of the retina ber sense resistant, involvement of this conducting your smally better. However, when the position for one is authorized in leakent the first lawer may be destroyed and strophy of the cycle period and place.

The distinction between a look of the function; with and a feelin of the cookeding system species to other organs. Will as to the open and irretters to other organs. Will as to the open and irretters to reliable guide in proposals and irre timent in the 5. the two types of leakons may be duringwished by a physicherical at yof the light testing with the received. The light entire indicates in of cross of the received system and capture alpha fanders of the received system and capture light printing an interest in the light difference causing the patient.

Terrino S Trans M.D.

O'Brien, C. S., rel Let felder P J: Unflateral Exceptional Sec. Am J Optio 435 13 3

Of eighty two consecutive cases of unilateral exophthalmon, 3 (3% per cent) were due to orbital inflammation and 31 (52 per cent) to non-laif series

long changes. Observed as compile to a support to a support the support that the

periodulus fin coe case A rule infammators conductor were recognized with case a the justions and slam tre sol 'es in their onset and progressed rapidly. Propted is creased rapidly from day to day movements of the globe were hauted, and pain and tenderrem ere present The lids were red ad offen the bulbar conjunctura w consented ad chemotic, and sera stenally furtuating mass wa seen or left is the erbit I t came discharging stees appeared in the lid or conjuncti Signs of congestion in th f ados one are la some cases the t imperature we levated not there was an increase in the fractient count ( reful examination of the agail seres my mouses, the terth and other regime of the her ! together with roentgenographic tuil or artially se ealed the source of the selection I or fest are I sard to be tad the source of the infection.

A realized 1 peoplesses either privacy seem any or metals for was present the order in term? for metals for me

parts, but occurred also as a metastatic growth. It was found only in adults, grew quite slowly, and involved the regional lymph nodes. It infiltrated bone in some of the cases. Neoplastic diseases of the hæmatopoietic tissues were responsible for several orbital tumors, viz, undifferentiated hæmatopoietic tumors composed of cells of an early embryonal type, malignant lymphomata, tumors associated with myelogenous leukæmia, and tumors occurring as a manifestation of acute leukæmia. Blood studies were a means to diagnosis in some of the cases of this type but not in all

Benign neoplasms were found in ten cases. The most frequent benign neoplasm was the meningioma. This tumor grew very slowly and, except in the late stages, gave rise to few symptoms. In the roent-genograms made in cases of meningioma there were evidences of hyperostoses in the anterior or middle cranial fossa or in the orbit. Among other benign tumors encountered were a gluoma of the optic nerve, a granuloma, a hæmangioma, a neurofibroma, an

adamantinoma, and a chondromyxoma

Trauma followed by an orbital hæmatoma, rupture of the carotid artery into the cavernous sinus with pulsating exophthalmos, or orbital emphysema occurred in eight cases. In orbital hæmorrhage the proptosis developed rapidly and subsided slowly without other symptoms. In arteriovenous aneurism the typical signs of pulsating exophthalmos were present. In emphysema the onset was sudden and crepitation was elicited in the lids.

Mucocele of the frontal sinus was present in three cases. The proptosis developed slowly and the globe

was displaced laterally and downward

Exophthalmic goiter occurred twice. The proptosis was unilateral, but the other common ocular signs were present in both eyes. In one case there was a high degree of unilateral axial myopia with pseudoproptosis.

In 3 cases the cause was undetermined

Non-inflammatory lesions of the orbit accompamed by proptosis were sometimes difficult to diagnose Frequently in cases of such lesions tissue examination was necessary to determine the cause The history was of importance, especially in cases of trauma or metastatic tumor Signs of inflammation were absent although pain was sometimes present and occasionally the lids were ædematous or even hæmorrhagic. Frequently a visible or palpable mass was detected in the orbit and the globe was displaced laterally or vertically as well as forward Ocular rotations were usually limited in one or more directions Roentgenograms were of assistance in many cases While they sometimes failed to show evidence of a tumor mass, they frequently disclosed signs of pressure, bone infiltration, bone erosion, or hyperostoses when they did not outline the neo plasm A general physical examination, including blood and other laboratory studies, should always be made, since in a few of the cases reviewed it was the sole means of diagnosis

LESLIE L McCoy, M D

Chang, L W Dislocation of the Lens Chinese
M J, 1934, 48 916

Dislocation of the lens is rare. It may be either congenital or acquired. When congenital it may also be hereditary, it is always bilateral, and the lenses are never displaced downward. Adams reported a case of downward displacement and Page a case of unilateral ectopia of the lens. In a period of four years the author observed four cases of congenital and three cases of acquired dislocation. The results of treatment in these cases were unusually good.

Virgil Wescott, M. D.

## Pi, H T Subcapsular Cataract in Osteomalacia Chinese M J, 1934, 48 948

Cataract is often associated with postoperative tetany and with the so called idiopathic tetany with changes in the hair and finger nails, caries of the teeth, and diminished bone growth. Tetany may occur in infants with or without rickets and in adults with and without osteomalacia, but the relationship between cataract, tetany, and osteomalacia has not always been recognized. The author reports three cases of subcapsular cataract associated with osteomalacia.

Vergil Wescott, M. D.

## Pi, H T Cataract Among the Chinese Chinese M J, 1934, 48 928

The author states that operations for cataract are infrequent in China because the Chinese seldom live to the cataract age, it being rare for them to attain the age of seventy years, they are cautioned in early life that operations on the eyes are dangerous, and at the age of sixty years they feel so near death that they make no effort to improve their physical condition. Senile cataract is seen from five to ten years earlier in China than in Japan or Germany Cataract is probably more common in women than in men, but for social reasons fewer women appear at the clinics.

Virgil Wescott, M D

## Dunnington, J. H., and Macnie, J. P. Detachment of the Retina Operative Results in 150 Cases. Arch. Ophth., 1935, 13, 191

The operative results in 150 cases of retinal detachment are analyzed. There were 197 operations on 155 eyes. Sixty-four per cent of the patients were males. The ages ranged from five to seventy-five years and averaged thirty-nine and eight-tenths years. There was a positive history of trauma in 30 per cent of the cases and a suggestive history of trauma in 113 per cent. Myopia was present in two-thirds of the cases. In 366 per cent it was 6 diopters or more.

Severance of the rectus muscles with subsequent re attachment rarely produced any significant muscular imbalance. No permanent effect on the intraocular tension was noted. Marked hypotony was found to be a grave prognostic sign. A postoperative change in the lens was rare. Frequently some impairment of the field remained after successful operative procedures. A cure was obtained in about 50

per cent of the cases with detachment of about ball of the reiths but in only about 5 per cent of those with detachment of three-quarters of the reiths. The inferior part of the reiths are found detached about take as frequently as any other part. Detachments without demoustrable term were cured assirty as frequently as those with one or more holes. The treatment was followed by cars in a ja per cent of the case, improvement in 0 8 per cent, and failure in the case, improvement in 0.8 per cent, and failure in the case, improvement in 0.8 per cent, and failure in Lindau and the case in the case of the case in the case of th

#### LAR

#### Howard, R. G. The Window Operation for Herne terms Auris and Perichondritis with Effusion. Large george, 935 45 8

Howard takes that in cases of hermatoms, fluid formations, and chronic masses but each the pre-chondrium and the cardilage of the set satisfactory results may be obtained by fortung a window present part of the constitute of the chronic section as a piece of tissue consisting of perhoportium and all thickness of skin by means of a punch or other suit the cattled instrument. Justice C Rasservar, MD

#### Fine, A. Oculomotor Nerve Speam in Gradenigo's Syndrome. Arch Olderyagei 035, 42.

In one Gradenico described a syndrome consist ing of scate otitis media amoriated with pain in the head and paralysis of the sixth nerve on the same side. The otitis may be an executation of chronic otitis without signs of mastoiditis, or the syndrome may occur during convalencence from a masteld operation. The syndrome is due to present on the nerves by localized secons meningeries at the apex of the petrous pyramid The pain in the head is due t pressure on the gusserian ganglion and may be dutributed to any of the remons smodled by the fifth erve Diplopia and paralytic internal strahismus develop as the result of sixth nerve paralysis. The second, third, fourth, and seventh nerves are involved only when there is a complicating sinus thrombosis, brain abecess, or diffuse suppurative meningitis, but occasionally disturbance of one of these nerves may develop without clinical evidence of an intracranial complication. Therefore the eye of the patient with Gradenigo a syndrome should not be regarded per se as an indication for surgical inter vention unless there is other well-defined evidence of intradural involvement Papillordems and involvement of the fadal perve have each occurred in cases

which cleared p apontaneously mapplies the superior oblique muscle and given the to vertical diplopts when affected, is the least frequently involved of all the conformatial nerves. The third nerve also is seldent jayouted by pressure photomena, the restore

being its abort and comparatively abeliared comes at the base of the skull. This server urises from the metilal surface of the crashral peduacke, piezes the metilal surface of the crashral peduacke, piezes the others the lateral wall of the caverances sizes, where we have a surface of the fifth. It sees a sunface orbit through the surprior critical flamous after of viding into a superior and in inferior branch. Inwidenant of the third nerve in Gradenige systems of the third nerve in Gradenige of drones which is frequent; results in gases of the homosterial internal rectors mosels which may begin be the first weak after pranspire of the homosterial lineary in the contraction of the contraction

If in the primary position of the eye, the purply tric eye tame toward the none, agas me of the interprite eye tame toward the none, agas me of the interservant the partylet eye access more applied pass the other eye is addrection of the speace internal return. A study of the diployic fields shown the diplopis is most marked when the patient looks in the durection of the purplysed external recture, for the freedom of the partyless external recture, the tree of the partyless of the direction opposite the field of action of this mostles. This indicates that the diployis is due to again of the homolateral internal rectus market.

In the differential diagnosis it is necessary to take into consideration the possibility of bilisteral involvement of the sixth nerve, in which condition dropols and internal strabismus are less marked in the primary position than when the systs look either to the right or the left Exwars 5 Part. MD

Keen, J. A. Clinical Observations on Chronic Desiness in Children. J. Laryagel & Oal 934, 40 752

Kenn reviews thirty-two cases of chronic doctases in children is which the child method of transitions was the electrophonoid method of Zand Burgoet. The doctainer was due to chronic suppositive oftis necks, chronic middle our catarrh, or occalental in the cases of the fast type the star. were free from duckarup before facilities our catarrh, or occalental on the case of the fast type the star. were free from duckarup before facilities and the fast produced method and at were used as controls. After severa preside to condition was worse in five of the six untreated cases but improved it all of the treated cases.

In the cases of the second type the desiness had persisted after the usual methods of treatment. There was hever any dacharge, and the dram membranes were lasted. Improvement occurred in all of those treated by the electrophonoad method but in only two of the four controls.

In the cases in which the desiress was the to ofcoclerous the dram membrane was normal. The dearness may have been of the inner say or congrainal type. In this series there was no striking improvement in the treated cases.

The patients were under observation for from seven t ten years. Once year the hearing was tested by the conversational and withprete voice and graphs were made Joses F Dense, M.D.

## NOSE AND SINUSES Tilley, H

Chronic Progenic Inflammation of the Antrum and Other Accessory Sinuses

Laryngol & Olol , 1935, 50 I

Following a brief résumé of the normal anatomical relationships of the sinuses and a description of the normal nasal mucosa, Tilley presents a detailed discussion of the problem of chronic sinus infection in the adult supplemented by numerous photomicrographs and illustrative case histories He discusses particularly the defensive chary action of the mu-Cosa To denote transmission of infection by way of the lymph channels and blood stream he uses the

Histopathologically, five types of infection of the nasal accessory sinuses are recognized the ædematous, the infiltrative, the fibrotic, the cystic, and a new type in which the infection involves the penosteum and passes by way of the vascular channels to the bony sinus capsule

These types are not easily distinguished clinically as one merges into the other The infiltrative type is the most common and the infective osteris type is the most serious An example of the latter is the diffuse spreading osteomy clitis of the frontal bone

In discussing the operative treatment of chronic maxillary sinusitis Tilley advocates the Caldwell Luc operation for all cases except those of the simple edematous type He attributes recurrence after a well-executed sinus operation to a residual infection in the bony tissues surrounding the sinus He states that until this infection is eliminated recurrences and focal symptoms will persist John F Delph, M D

Venu, V The Skeleton of Harelip (Le squellette du bec-de lievre) Ann d'anal path 1934, 11 873

The bony defects present in complete unilateral and bilateral harelip are described and shown by and underest nateup are described and shows of all swith such lesions and senal sections of the skulls of six fetuses from five to eight months of age

Characteristic of complete bilateral harelip is enormous projection of the interma ullary bone due partly to elongation of the yomer but chieffy to deformity of the intermaxillary bone Recession of the superior maxilla may make the projection more apparent There are four incisors in the median tubercle. The lateral incisors are lost early because they are poorly implanted and their blood supply is imperfect. While the incisors are in a vertical plane although they pro Ject forward, they are useless for mastication because they are separated from the inferior incisors by more than I cm The vomer and interma ullary bones may project straight foward, but the aus is usually Curved because of the pressure of the bridge of soft Parts at the level of the nose The author supple ments his description with drawings of eight frontal sections of an eight month fetus

The lesion is essentially the same in unilateral as in bilateral harelip, but the skeletal changes are very

different because in unilateral harelip the vomer and median tubercle are acted upon by the natural forces of the normal side and, as a result, the median aus is considerably distorted The author presents dranings of two twins of 165 mm which demonstrate the distortion He compares a set of serial sections taken in the frontal plane and a set taken in the horizontal plane with a few normal sections In the normal sub-Ject the intermaxilla is situated in the frontal plane In the deformed it is in the sagittal plane and is progressively dislocated from the inferior margin of the septum away from the side of the cleft calls attention to the deep groove where the nasal mucosa normally turns from the septum onto the palate because, in the repair of the floor of the nose Parate because, in the repair of the moor of the mose which is generally necessary, the mucosa in this region should be freed

Part of the vault in cleft palate is covered by mucosa which normally should form part of the floor of the nostral on the cleft side. The nostral on the cleft side is generally obstructed by the hypertrophic inferior turbinate The author presents horizontal sections showing the great deviation of the septum toward the cleft side, and several other sections showing variations in the arrangement of the suture lines and teeth in unilateral cleft palate In conclusion he states that complete harehp sometimes oc-Such the states that complete nature sometimes of minor bone changes Thomas W Stevensov, Jr, MD

Kecskés, Z. The Advantages of High Tracheotomy (Ueber die Vorteile des oberen Luftroehrenschnittes)

According to the Lénárt Nose and Throat Chinic at Budapest, high tracheotomy should be chosen for the adult and low tracheotomy for the child This viewpoint is based on 226 tracheotomies which were done in the last few years The operation is performed under local annesthesia, never under narcosis An oval window of the diameter of the cannula to be introduced is cut in the wall of the trachea The high tracheotomy, which is more rapid, is recommended also for emergency cases The anatomical conditions are more favorable for the high operation At the level of the first to third tracheal rings the trachea is superficial, while at the site at which the lon operation is performed it lies from 5 to 6 cm below the skin and in front of it are large veins which in dyspacea may be dilated to the size of the little Often, the arteria anonyma crosses the trachea very high up. The arteria thyroidea ima is present in 10 per cent of the cases In the cases of children the possibility of an enlarged thymus must

In the cases of short-necked persons the low tracheotomy is often impossible as the fourth and fifth tracheal rings are behind the sternum plications are more frequent following the low per cent of the cases in which this operation is done Secondary hæmorrhage occurs in 81 (Eske), but in only 19 per cent of those in which the

high operatio is performed. Wound infection is also more frequent after the low tracheotomy. I the high operation the short cannots fits the axis of the traches better its initial changing being therafors easy and operative accidents are more easily avoided. (J. Initis), Jose W Bur. M. M.

Canalo, C. K., and Linear H. Two Cases of Childhood Myznelanz Reported for the Purpose of Emphasizing the Importance of Bone-Age Studies. Endersafary 233 0

In reporting two case of presults hypothyroidism the suthern present a series of reentgenogram of the wrist of one of the patients which aboved extreme occoun retarriation before treatment and marked oneous development during two years of thyroid therapy. They may the use of bone agreement ray studies in case of suspected hypothyroidism. Ther cit this work (Engplish and abbotto and presents a dasadination of condutions associated this retentation and retarded ossiciations.

PAUL STARR, M.D.

Kallen, L. A. Vicarious Vocal Mechanisms. The Ametomy Physiology and Development of Speech in Laryngectamined Persons. Ank Olderynge 934, 80 450

Eallen states that improvement of the technique of extirpation of the larynr has resulted in increasing interest in methods of restoring voice t persons subjected to that operation

The disadvantages of the provideser formerly used were unitation of the tissues, shifll not equipment were unitation of the tissues, shifll not equal to and fatiges on specima, problitive out, and occasional failure of the pearants t work. The uthor claims that there is hardly a person subjected total largaryctomy who within about time, could not be tought to develop fairly loud voice some nable to a certain degree of modulation and superior to the sound produced by mechanical device.

The purpose I would therepeate measures after the purpose I would therepeate measures after the purpose in the develope a windown senseworf for as which may be subjected to compression in such way that some automical structures of page of frame tooring as a vicanous glottle may be activated by It. The automous structures of offeng possibilities for the development of a vicanous air chamber vary is location from the stomach the occupacy opening.

(crinopharyngens eneck)
It is believed that under normal conditions the patric air bubble facilitates the satur of lood into the enomath, regulates spatial capacity, and regulates potent capacity, and regulates potent capacity, and regulates present in the lower portion of the stomach contract. By some chains the smalle tag of air is advented. The office divocation apparation of air of the contract of the contr

tongue and the tense veium paletini, the base of the tongue, the posterior wall of the pheryna, the tongue, the paletine wall of the pheryna, the tongue posterior pillars of the fauces, the paletine relate the interior constrictor of the pheryna, the opiciotis, the two historial pherynapsis bunds, the esternal folds of crophagus sith its associated useuss (cricopia, ryagene muscle) and the month of the cropolarus

Two stages are differentiated in the production of craophageal speech oscitance (opening up) of the craophagus before phone flon occurs and craophageal contraction during phonation. Air or rush ist the craophagus only after its mouth is open Since. under normal conditions, the croophagus remains closed during inspiration, the laryngectomized per son must learn the method of effective emiration of air by conscious amaibilities. Whenever possible, the surgeon should preserve macous membrane and a favorably placed excatricial band, muscle, or muscular remna t as they may serve as basis for the development of a pseudoplottia. It is mayested that the transplantation of tw folds of meroes merebrane or muscular etrips in the mesopherynz ne hypopharynz may provide a structure which later might develop into a pseudoglotth dependent mon their capacity to vibrat It is important to mare the fibers of the criconharynesis muscle and to protact the sternohyold and thyrobyold proacles from

sureical barra The a thor classifies pseudo-volces rato four groups (1) the pseudo- hispered voice, (1) the pharyageal voice, (3) the crophageal voice, and (4) the gastric voice. Normally hispering occurs when the expiratory breath current flows through the posterior portion of rims, making an opening of varying size which is shaped like triangle. The larysectomized subject who "pseudo-whispers" cannot form independent vosels. He can merely indicate them H does this by assuming the oral posture involved Actually he produces the comonants. It is best for the patient subjected to larys gectomy not to attempt the pseudo-whisper as it may become habitual and render worst methods difficult. The so-called pharyngest voice is that of the patient whose vicerious glottle lies in the mesophary ax or The croopbagest voice differs is hypopharyna mechanism and accountic quality from the pharyneral voice and is the aim and end of vocal therapy after laryagectomy as it persuts attifactory volume modulation, and firmity. The gastric voice is often used by ventrilocusts. This is the so-called "belly-class type of voice. The sound is stade by cracts. tion from the stomach combined with articulation and is sufficient to produce speech

The author theremes the respiratory function and arrantation in speech, the ride of the dusphages in vications respiration, speech smooth of the dusphages in vications respiration, speech encloder in the larguage tenured, variations in vocal resolutions, and there peace measurem for the development of the state of t

gram The results of this program are dependent upon the intelligence, adaptability, skill, other qualities of character, and general condition of the patient. The program includes reconditioning of phonic respiration, the production of sounds and syllables, aids to the production of eructus, the practicing of articulations and their combinations, reading and modulation exercises, and movement of the head and neck to aid in the development of the pseudoglottis.

The prognosis in vocal therapy is dependent upon the psyche of the patient. As a rule it is favorable. The wound produced by total extirpation of the larynx heals completely within about six weeks. Phonetic therapy should be instituted immediately after healing. The mechanical device does not replace an inherent biological function. It does not become an integral part of the patient's psyche. It remains, at best, a useful machine never identified with his personality. The aim of all vocal gymnastic therapy after laryngectomy is to aid the patient to live as normal a life as possible.

ALTON OCHSNER, M D

Tucker, G Cancer of the Larynx Observations in 200 Consecutive Cases Arch Ololaryngol, 1935, 21 1

Tucker reviews 200 consecutive cases of cancer of the lary nx which came to the bronchoscopic clinics of the University of Pennsylvania and were treated by several surgeons or roentgenologists

Only 2 per cent of the patients were negroes Forty-one per cent had used the voice excessively,

and 12 per cent had used tobacco excessively All of this group had hoarseness and local discomfort Twenty-two per cent had dyspnoxa, and 58 per cent dysphagia Local or referred pain was present only when the disease was advanced.

X-ray examination yielded evidence of a lesion in the larynx in practically every case. Correlation of the findings of X-ray examination, mirror examination, and direct examination permits an accurate determination of the location and extent of the lesion. Biopsy was done in all of the cases reviewed. In none were there any untoward effects or indications of metastatic spread resulting from this procedure.

Ninety-five per cent of the lesions were squamous cancers. Seventy-two per cent were probably of intrinsic origin, a type of lesion which is amenable to surgical treatment if it is diagnosed early.

In 58 of the cases laryngofissure was performed In 14 per cent of these the lesion recurred in two years

Of the 31 cases in which total laryngectomy was done, recurrence developed in 37 per cent.

Partial larvingectomy with laryingostomy and maintenance of the opening for one week for the intralaryingeal application of radium was performed in 17 cases

In 54 cases X-ray and radium treatment were given Because of the difference in the methods used, no estimate of the results of the irradiation is possible. However, 3 patients who were treated only by irradiation are still alive after three years

HARRY C SALTZSTEIN, M D

#### SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS; CRANIAL RESTER

Calrus, IL, and Donald, C. The Diagnosis and Treatment of Abeces of the Brain. J Lorental or Otal. 015 50 73

Following a discussion of the various methods of treating abscess of the brain, the a thora describe their own procedure in thirty cases. In t. enty three

of the latter operation was performed. Ten of the thirty patients recovered

The authors contend that complet removal is the only satisfactory treatment for thick walled chronic shecess, and express doubt as to whether an abacess should be operated upon in the acute stage. They emphasize that not more than c.cm of cerebrosolnal find abould be removed in diagnostic solnal paneture. In their method of emboration for an abscess the scalo is infiltrated ith a per cent novocula and a burr bole 5 cm in diameter is made in the skull at the site of the suspected abscess The dura is then opened and the healn explored with

graduated brain people. A distinct resistance indicates that the caprale of the aboves has been encountered It is important for the needle t enter the sheem cavity at right angies and at its upper most part. If necessary nother bury hole should be made to permit the needle to be introduced directly rather than obliq ely into the becess. The escape of few bubbles of seas indicates that the too of the cavity kee been entered

The usual open and closed methods for drainage are discussed. The after-treatment indicated is the same, regardless of the method of drafting the ab seem. The authors emphasize that dresmos should be done infrequently unless a complication develops In their cases the first dressing is usually done t the end of ten days. The papent should remain in bed for several weeks after the operation

The most common complications in the athors ten cases with recovery were a rise in the tempera ture, cadema, meningitis, incomplete drainage, recur rence, and spilency. Hits occurred during the first few weeks after operation in four 1 the cases of recovery but in only one did they continue after the

patient's discharge from the hospital

The authors review the common errors made in the diagnosis and treatment of become of the brain They believe that the end-results would be improved if the history were carefully considered and neurological examination and an examination of the visual fields wer made in cases of severe beadaube after ear trouble or masterd operation. They state that when intracramal complications are suspected neurological investigation should take precedence over ROBERT ZOLLESCER, M D mestaldectoury

Schiett, A.: Suprassilar Graniopincyngioma (Suprescieres cremo-oberpageen) Uni Res 1944. £ 505.

As a rule tumors of the anterior lobe of the hypophysis produce the chiasma syndrome. This is essentially a temporal hemianopala companied by destruction of the sells turcies which is visible is the roentgenogram. The chiasma syndrome amy be produced he by tumors of other kinds, especially to-called craniopharyngiomata. The latter lead, not to destruction of the sella turcica, but merely to atrophy involving especially the clinal processes The thor reports such a tumor It belonged to the

Clinical group of suprassilar accolumns

The autemor lobe of the hypophysis arises from as out pocketing of the embryonic oral cavity and is therefore of ectodermal origin. At the end of this o t-pocketing there appears closed each lack is the aniage of the anterior lobe of the hypothysis The padicio f the vesicle is the cranlopharyages! Cenal Normally this disappears later Behind this values of the anterior lobe there develops as out-Pocketian of the mid brain which becomes the posts tior lobe. After the cranionharypered canel has regressed the hypophysic remains trached only to the brain. The cranfopharyngest cases persists in

per cent of dults. It may persist in part or is whole It may come down from above and termitrate in the body of the sphenoid or the posterior part of the masal septem. It may contain hypo-Diversi times. If a tumor anxies in the crate-Dharvascal canal grows powerd and emerges at the sella terrelca, it becomes sepresellar terror che cally and produces the chiasma syndrosec roentgen picture often shows calcium deposits

In the author's case, that of girl cleven years of age, there were disturbences of the riston and headaches, and the roentgenogram should shadow the size of a plum shows the sells turrics. The shadow was due t small calcium granules. The presence of thursded intracramal pressure was evidenced by flattening of the digitate unpressions. The tensor was operated upon by Obvectors. The clusters was exposed from the right side. By sacrificing the right optic nerve, the function of which had been almost destroyed, it was possible to remove most of the to mor and revere the pressure on the left optic serve, which still functioned fairly well. After recovery conceptric diminution of the vanial field found (SURCHARRY) John W Barrer v, M D

Pfahler G E., and Spackman, E. W: Further Observations on the Rountier Treatment of Fi-

tuitury Tumers. As J Resepted \$35.13 14 The relative value of surgery and irradiation is the treatment of patultary comors has not been de termined definitely and varies in different cases Of importance in the selection of the treatment is cooperation between the neurologist, surgeon, and radiologist When operation offers a reasonably fair chance of success, roentgen therapy is to be regarded as the second choice. When the tumor mass cannot be removed completely, hope of preventing regrowth must depend on irradiation. When the indications for operation are questionable, the patient's general condition is not favorable, or the patient refuses surgery, roentgen irradiation is of the greatest value. Initial irradiation therapy given by a competent radiologist is less hazardous than indifferent surgery If unsuccessful, it does not interfere with operation unless it is prolonged beyond reason In far-advanced cases in which surgery cannot be considered, roentgen therapy usually offers the only hope of palliation

Twenty-one cases of pituitary tumor treated by irradiation alone or in conjunction with surgery are presented. The neoplasms included pituitary adenomata, a suprasellar tumor, a cystic pituitary tumor, malignant disease with extensive involvement into and about the pituitary region, and tumors the exact nature of which could not be determined. The clinical and roentgen findings are described at length and the results obtained in each case are discussed The results were best in the cases of solid pituitary Improvement of the visual disturbances was a feature in all of the favorable cases, and relief of headaches was obtained in the majority. The article is concluded with the following statements

Roentgen irradiation is to be recommended as

routine treatment for pituitary tumors

2 Consultation of the radiologist with the sur-

geon and neurologist is essential in all cases

3 We believe that we do no harm and do not delay a favorable outcome by giving 200 per cent of the erythema dose, 1,600 r, through the usual three areas, but that if no response is noted after this much treatment, operation should be performed as in all of our cases amenable to roentgen treatment we obtain considerable expansion of the fields of vision at this stage

This treatment can easily be given within two months, and in no way interferes with surgical

procedure

5 If the fields of vision and the clinical symptoms show a satisfactory response, we believe the case

may be treated without recourse to surgery

6 We recommend examination of the fields of vision monthly during the active stage of treatment and at least once every three months when the visual fields appear to show no further changes

7 We have stopped treatment as the fields ap-

proached the normal limits

- 8 We have given as high as from 8 to 10 erythema doses to each skin portal, and by carefully limiting the area of the field, have avoided unfavorable results
- 9 If the fields of vision begin to show contraction or the clinical symptoms increase in spite of roentgen treatment, the patient should be operated upon

The total dosage should be carefully watched

Postoperative roentgen therapy is strongly recommended for every case in which there is any doubt regarding complete removal of the tumor

ADOLPH HARTUNG, M D

Frazier, C H The Surgical Management of Chronic Subdural Hæmatoma Ann Surg. 1935, 101 671

A syndrome which is pathognomonic of subdural hæmatoma consists of headache, somnolence, yellow spinal fluid, and a history of injury to the head The author reports six cases He found headache to be the most common and somnolence the next most common symptom All other neurological symptoms were inconstant. Inequality of the pupils was found in only three cases and well-defined papillædema in only one case. The disks were blurred in two cases and normal in three Focal symptoms were present in only three cases. In one case the pyramidal tract signs were homolateral Homolateral pyramidal tract signs may be due to (1) pressure of the crus on the incisura tentorii, (2) pressure of a contralateral dilated ventricle, or (3) pressure of the contralateral hemisphere against the cranial wall The spinal fluid was examined in only four of the reported cases In two it was vellow and in two it was colorless. The spinal fluid pressure was increased in two and normal in two. The protein content of the fluid was increased in three and normal in one

Quite often (in 50 per cent of the cases reported by the author) ventriculography or encephalography is

necessary for diagnosis or localization

The hæmatomata were bilateral in three of the author's cases and unilateral in three Bilateral hæmatomata occur most frequently following a blow on the back of the head Subdural hæmatomata are usually found in the frontal and parietal regions, but occasionally they extend from the frontal to the occipital pole. The mechanism whereby an injury to the back of the head causes the rupture of a vulnerable vein has been explained by Trotter The brain is not protected against anteroposterior movements as it is by the falx against transverse displacement The cerebral veins passing from the brain to the tributaries of the longitudinal sinus are short trunks passing directly from the brain to the dura at right angles The cranial end of the vein being firmly fixed by the dura and the cerebral end attached to the movable hemisphere, rupture can be readily produced by a sudden jarring movement which causes an anteroposterior displacement

Within a short time (few days according to Spiller), the hæmatoma becomes enveloped in a characteristic greenish membrane. In removing the hæmatoma by the suction method it is important to leave the membrane intact At first, the clot may be of a gelatinous consistency Later, it undergoes liquefaction The fluid is dark blue, coffee colored, or greenish yellow As the clot has usually become liquefied by the time operation is undertaken, Fleming' dual perforation, suction-irrigation operation is the procedure of choice. In this operation two per forations are made from 6 to 8 cm. spart, first on ne side of the midline and then on the other, one in the postfrontal region and the other in the perietal region. They are so placed that they may be utilized in the formation of an osteoplastic flap if necessary Irrigating fluid is introduced through the frontal perforation and removed with the accumulated blood by section through the perioral perforation This process is continued until the hematoms has been evacuated. Became of the high incidence of bilateral hematomata, bilateral exploration is rec ommended. D VID JOHN IMPARTATO, M D

#### Dolfood, V. B., and Neutradter M. Martinto-Encephalitis Caused by Cysticarus Celluloss. Arch. Harrel & Psychool #11 13 1

Cysticerci, the larves of several intestinal tape worms, are frequently encountered in the muscles of various domestic and wild animals. Cysticercus cellulose the larve of tenia solfum, is the common organism affecting the eve and ther organs of man, but several cases of infection of the eye by the cysticerous of the boyles tapenorm are known The cysticereus found in the brain is pourently always the cysticarcus cellulose

Cyulogrouss of the brain is the most important form of infestation became of the gravity of its promode. The disensels is difficult because of the absence of characteristic signs and because I the variability in the site of the lesion and its frequently disseminated character. The dispancia is most often

brain which came to operation and tliness began one year before the patient s dmission to the hospital with constant headache radiating

topsy The

made at autousy The authors report a case of cysticercosis of the

from the froatal to the occipital region. Five months later vision in the left eye became blurred and the natical complained of seeing red and blue lights. A few weeks later vomiting and convulsive sciences of the left arm and leg occurred With subsidence of the symptoms, vision in the right eye became blurred while vision in the left eye began t improve. Lumber peneture at the New York Eye ed Ear Infirmacy revealed pressure of 440 mm of water, a meningitic collodidal gold curve, and oo white cells per cubic millimeter 3 per cent of which were costrophiles. No parasites or ova were found in the faces. The patient was transferred to the Central Neurological Hospital. The flacings of the neurological examination are reported in detail Despit negative Wassermann and Kahn reactions of the blood and negative Il amermann reaction of the spinal fluid the symptoms were ttributed to retrobulber gamma Because of coshophiha in the blood (s. per cent), detailed evtological examina-tion of the spinal fluid was made. The findings of this examination were cells per cubic millimeter cosmophiles, 16 per cent neutrophiles, 24 per cent and lymphocytes, 50 per cent. These observations

led to the surpicion of parasitic injection of the mentages or brain. Examination of the creeken. spinal fluid for booklets and of the farces for on was negative The diagnosis of retrobulbar summa 6th summatous meniagitis was therefore maintained and anthrophibitic treatment was given.

Four months after the patient a admission to the hospital no cosinonhiles were found in the cerebrospinal fluid or the blood. One mouth later lack socian attacks developed. These attacks were limited to the right side and were preceded by parastheris of the right extremities. The preroceiral condition remained about the same until t later when the visual fields were constricted and central scotoms was found on both sides. A sheer time later the patient had a general clouic convalsion with loss of consciousness. kich lested for about three minutes. Following this attack vision failed rapidl until it was limited to the counting of fingers. There were complete primary ootic troopsy on the right and marked papillordems on the left. Testing of the pupillary reflexes was not done as mydriatic had been administered. The ocular morements erelisted There as no nystamus The corneal reflexes were present and the pharyages! reflex as absent. Other neurological ages ere only slightly altered Because of the threatened blindness right subtemporal decompression was decided upon A impative pre-operative diagnosis of sar-comatons of the base of the bram was made

On December 8, 23s, an opening 1 in. wide was made in the right temporal region. The dust and brain bulered through it. A small tumor mass was found on the undersurface of the dura and removed

The anatomical diagnosis was mentumous On the day after the operation there was paralysis of the left side of the face and body and Babbaki reflex was present on the left. The parelysis of the leg subsided the following day but that of the arm and face remained unchanged. Four days later there was complete amaurous with primary optic trophy on the right and complete secondary strophy on the left T o weeks later a small purelent discharge appeared in the nound and was followed by challs and a rise in the temperature to on degrees F The patient deed one year and wine months after the beginning of the symptoms.

The findings I smiopsy are reported in detail A heavy plantic execute was present in the lo er sur face of the bests over the peduncies, the poes, and the medalla and apparently extended to the appar cord A tassed of vesicles was seen emerging from the right sylvian facers and other groups of more sharply defined vesicles ere observed on either side of the poss T o tased-like groups of vesicles ere present on either side of the poss and net over the quadrigemenal bodies. The fourth weatricle and the aquedoct of Sylvins were filled a this dry cheesy material. The diagnosis was infestation with craticereus recemonas

The pathological changes ere meningo-encepha bits and choroiditis caused by the cysticerous race mosus, ependymitis granulosa, existeercus endartentis at the base of the brain and in the branches of the right middle cerebral artery distal to the lenticulostriate artery, and cortical infarction

The loss of vision was caused clinically by primary atrophy of the right optic nerve and secondary atrophy of the left optic nerve, the result of mild hydrocephalus produced by the exudate in the aqueduct of Sylvius and in the fourth ventricle Microscopically, both nerves showed chronic inflammatory and degenerative changes due apparently to the proximity of the cysticercus which extended from the right sylvian fissure into the anterior fossa EDWARD S PLATT, M D

#### SPINAL CORD AND ITS COVERINGS

Bellucci, B Roentgenological Visualization of the Ependymal Canal in a Case of Hydromyelia (Visualizzazione radiologica del canale dell' ependima in un caso di idromielia) Radiol med , 1934, 21 1418

The case reported was that of a man fifty years of age who entered the clinic complaining of pain which gradually localized in the lumbar region of the spinal cord. On lumbar puncture the cerebrospinal fluid escaped under high pressure. The fluid was turbid and contained many poly nuclears, lymphocytes, and large cells, probably ependymal elements.

As symptoms of partial paralysis of the lower extremities set in, a my elographic examination was made following the introduction of about 2 c.cm of 20 per cent iodized oil into the subarachnoid space of the spinal cord according to the usual technique. The needle was introduced into the intervertebral space between the first and second lumbar vertebra.

The roentgenogram presented a strongly radioopaque line which was identified as the ependymal

canal of the spinal cord

This opaque line measured about 2 mm in width, extended from the seventh thoracic vertebra to about the middle of the twelfth thoracic vertebra, and ended at the upper level of the second lumbar vertebra in a small, cup-like shadow (terminal ventricle of Krause)

The author states that this case is the first to be recorded in the literature in which it was possible to visualize the ependymal canal roentgenographically

In describing the pathologico-anatomical picture he reviews the sequence of events which led to accidental introduction of the iodized oil into the central canal of the cord. In his opinion the picture was that of hydromy elia due to medullary compression following the formation of an ossifiuent abscess invading the spinal canal

RICHARD E SOUMA, M D

Fletcher, E. M., Woltman, H. W., and Adson, A. W. Sacrococcygeal Chordomata. A. Clinical and Pathological Study. Arch. Neurol. & Psychial., 1935, 33–283

The authors review ten cases of sacrococcy geal chordoma which, in their general aspects, resembled

the seventy-five cases reported to date. They state that chordomata of the sacrococcy geal region have been found more frequently in males than in females. The problem of the relation of trauma to the development of such tumors is of interest. Two of the authors' patients giving a history of injury were women. One of these women had suffered a fall on the buttocks forty-six years previously and the other had had a similar injury twelve years previously. In some of the reported cases the symptoms of the tumor dated from the time of an injury

Pain was present in all of the cases reviewed by the authors, and in all but one it was the initial symptom. Tenderness was a common complaint Numbness was recorded as a symptom in seven cases and could be demonstrated in all of the six cases in which the patient was subjected to a neurological examination. Sphincteric disorders were present in eight cases.

In five cases the physicians who had treated the patients earlier had had their attention focused on the presence of hæmorrhoids. This is not only interesting, but suggestive. Moreover, ædema of the legs in two cases, while not an early sign, and varicose veins of the legs in one case attest to rather frequent interference with the local circulation.

The most valuable examination in these cases was digital exploration of the pelvis through the rectum In nine cases a tumor could be palpated. The authors call attention to the importance of examining the hollow of the sacrum. They state that too frequently the interest of the examiner leads him to limit palpation to the prostate gland and that when this is done even a large sacral tumor may easily escape recognition.

In four of the authors' cases roentgenograms showed evidence of destruction of the sacral vertebræ suggesting the presence of a mahgnant growth In five, the roentgenographic report was negative The authors believe that the incidence of negative findings would probably have been lower if recent improvements in the roentgenological technique had been known at the time the examinations were made No picture diagnostic of chordoma as distinguished from other malignant tumors could be established Studies with 40 per cent iodized poppy-seed oil in the cases of suspected sacrococcy geal chordoma may yield diagnostic information before routine roentgenograms become positive

The duration of the illness in the reviewed cases ranged from eight months to eleven years. One patient was alive and in apparently good health nine years after the operation. In the case of one patient who is still living the operation was performed only a year ago. Eight of the patients are dead.

As in cephalic cases, a pre-operative diagnosis of chordoma apparently can be made only by biops. In one case the diagnosis was made in this way before the patient came to the Mayo Clinic In only one case, seen in 1926, was the possibility of a notochord tumor entered on the records. This diagnosis was

made by Pinmmer The situation of the pain, which made by Francher to extraction or the pain, which is causely lower than that amortated with other is meanly sower coan that associated with occur-ciated immort such as opendymal shomats, the cancer ramors and as opendymas geometre, the high and early occurrence of personal tanterness, the man and early octunities of persons anarthesis, and the spoinceasic disorders are note

The observations made in a study of icn cases of And conservations made in a stray or increase of a stray or increase of the conservations about the stray or increase of the conservations and the conservations are stray or increase or increase of the conservations are stray or increase or incre accuracy/arts corrowns accuracy was narcongress variation have led to the conclusion that notochordal racisciono mere seo un coe cimeramo o cuas necocnocos en lamora, although they may resemble effert epithe innors, attrough they may resent the crime crane crane crane control mesodermal neoplasms, have specific characteristics. nu or menonsman acopasans, as we spoone course critical by which they may be distinguished Briefly these a ( ) the formation of intracellular incorpy mean a 11 one to measure or instactance of plans and extracellular mocus () the presence of plans and extracellular mocus-containing cells (i) a looms arrangement of the times calls a likely (4) the occasional occurrence or one remove twenty a mixed that is considered to the occasional occurrence. ( vaccolation of the nuclei and (s) close resem-Paccounted to notochordal there as seen in the suciei

pulposi of the intervertebral disks Journal of the tumor is impossible as it would require movel of the tumor is impossible as it would require

covers on the summer is anymmore as it would require removal of the entire section. However, much can removal or the course sacrum trowsers meets can be accomplished to allernat pain, retard the growth to a compliance to anomat, pain, return the give to of the tumor and control the neurological symptoms ph obcietian meeting and tequiperships of the contract and remainders. operative measures and radiotherapy in all but one of the cases reviewed the treatment

an antique one on the cases represent the treatment was about the same namely as complete surgical was about the same namely as comment surseas removal as possible followed by rocalifes therapy Irmoval as possible todowed by toenters standard in one instance only biopsy was performed before in one measure our course was principled to the principle of the register through the registe has roenigen incrapy. Operative measures are em-ployed with the hope of rehering pain and retarding the growth of the tumor

to growth or the tumor is extremely vascular traduction to act the cursar is extremely vascular insolution indoobtedly retails is invasion of the surrounding nonsymboury remains to invasion to the sentential distance, but then the fumor is cartileginous fraction tion is of little value

on is or lettle value.

Surgical resection of the tumor decompression of Sorgical resection or too tunger to compromise the secretary, and high-voltage room from therapy the mergin, said migraturing themigns therapy relieve pain, relaid the growth of the tumor and

### PERIPHERAL MERVES

Surroute Isolated Turnors of the Peripheral Name Oute interest tempera or the component over one Les (amoun noites des seris prophenques). Re-

The author reports four cases of isolated tumors of the purposers power than or measure towards of the purposers between the prior based or treatment of the various theories regarding the pathogeness of the various theories regarding the pathogeness of or the various and their classification as periodersal or acco consults and constitution as personals, from its, neurometa neurofibrometa, and personals, and and another personals, another personals, and another p

A cyler of the literature showed that the chinese hatory of those impore is more or less uniform nations of those tandors is more or sea amoran Trauma is considered secondary etiological factor

In 63 per cost of the cases reported in the literature in 03 per cont or the crass reported in the interacture a nerve of the arm a sa imported. The tumors give a nerve or the arm was involved. The tumors give showly and amally develop in the region of an articletarry and trusted occupied in the report of an attre-lation or a here a here pierce an interamental lation or sacre a nerve percent an ancicamental septum. They are attached only to the nerve and separate they are attached only to too nerve associated. The chief subjective symptom is pain, especially on movement of the extremity lifety espening on movement of the camerally above sections is around although intesting of the attentity may be sorted. The tumors are meally

discovered by chance and when first case by physician are usually the size of a valuet

in the differential diagnosis it is necessary to rate an tas our remain magness it is necessary to race out tumors of the akin and subcutaneous thanes, oet tumers of the axin but subcutaneous timers, and bone synoyisi cysts chronic adeaso. manage, and toos sympostal types continue authors and server and

you kee anguing disease
The four tumors reported by the author cre
classified as giornate. They were all energiabled Capacion as governate a lary were an encaparation of Ortic they presented any accustom autocrate an Own expuspation of information capacities of the compact mass of insiferent calls with fac. (1) a compact mans or manorar com war and regular fibrillary structure, and ( ) local reticular mans of branching stellar, cells. The thor states mass of branching Renar come they their rates of tast such tumors are formed from the socials of occurrence and it or eccodermat origin that do not contain herry elements, and hear only slight rela-CARLESS DEFINE CHARGES, and Dear only major res-tionship to certain comparable temors of the central Dervous system.

revous system.

As treatment, Surrout recommends ( ) concles-As tracown, surror recussors ( / consection, when possible or ( ) resection of the famor and tong a the passence of / reservoir a the taken connarre the latter processor anomic or reserved the less important nerves 0 lb Josep, Jr. 11 D

Greener, H., Discreptore, R., Innac-Georges, P. and there, it., Description, it., Innactusorpus, r. and March M. Neurodiscommitted with Catanassa and Rosy, Changes (Perus fruit payments) at according to the Catanassa and Catanassa and Catanassa (Perus Mal Par

Bone lesions have not generally received sufficient attention as an executial part of the condition knows as you Reckingly own disease. A review of the es von Korzungswussen Guesse. A review is om Hieracture above that children with altered anomalor often have codes colored marks on the sime ideatool with those found in you Reckingheners theories although there may be so neurocasta or cutracous

Some individuals a th you Reckingbassen dewas because Autom anomales of a contents to be such as dislocation of the hip and some brids. There is also group about it bound and about manual and orthographics. As the result of this condition deorthographics As the result or their touchton or-formules of the spane, face, head, or thous may be present, spoots peops fracture bey occur and decrease is the density of the bones is abore by MARKE W. POOLS, M.D.

made by Plummer. The altuation of the pain, which made by rummer. The attnation or the pain, when is equally lower than that associated with other is creately somer than that associated with other caudal (under such as ependymal glocalia, the cason, tunors seen as epentymas guoraus, tas indernos, the high and early occurrence of perianal anesthods, and the sphincteric disorders are note-

The observations made in a study of ten cases of and other variation itinus in a study or ten cases or according to the histological sectooocy great chorocoma amounts were metoscherist camors, although they may exhibit differ spathe tamors, atmostra they may esemble enther spaties had or mesodermal neoplasma, have specific characnat to measuremen herpeasure, mayo specime contraction for which they may be defined about retailed by which they may be distinguished Briefly these are ( ) the formation of intracollular photons of practical micra-contained cells at received the structure of phase at the contained of interesements of the property of the property of interesements of the property of the proper (a) a lobelar transferment of the tumor cells, which (1) a source transpersent or the tumor cent, which could be corrected to the occasional occurrence of vacuolation of the nuclei and (5) close reneral or various last or not oched itsens as seen in the ociel

upon or the interventences disks.

In most cases of sacral chordoms complete isnoval of the tumor is impossible as it would require temoral of the entil section. However much center to the temoral at the temoral a removal of the call sucrum. However much can be ecomplished to alleviat pain, retard the growth ne compensation to answer purple reserve to grow to of the tumor and control the neurological symptoms by operati measures and radiotherapy

In all but one of the cases reviewed the treatment An autors one or the cases reviewed the treatment was about the same, namely as complete surgical removal as possible followed by receiven thereby timoval as positions touch and by receiving the performed before In one instance only propay was personned necessition configurations of the propagation o too roomgen therapy. Operative measures are em-ployed with the hope of relieving pain and retarding the growth of the tumor

se growns or the tunor.
When the immor is extremely vascular treadstion waren use tensor is extremely vascoust irracurences uncloubledly reta de its invasion of the surrounding unacourage reas us as measure or the serrouseurs theme, but when the tumor is cartilaghous bradia-

on it or attic varies
Surgical resection of the tumor decompression of Surgical resolution or the number decomparisons on the sacrum, and high voltage roomigen therapy toe sacrum, and nigh voltage roomigen therapy cheve pain, retard the growth of the tumor and prolong hie

## PERIPHERAL NERVES

Surrosts Isolated Turnors of the Peripheral Names Once Annature Authors of the Let (Annature February State February

The author reports fou cases of molated tumors of the peripheral nerves. If gives a instance amount of the peripheral nerves. If gives a historical review. of the various theories regarding the pathogenesis of or the various incomes regarding the parangement on such tumors and their classification as peripheral auto tutano ani tueri casanoniato sa periporta. ghomata, neuromata, neurofiromata, and per-

A review of the literat re showed that the chinical A ferror or toe attent to store or treat the conormal in more or less unaform arrany or those terms is based or assessment.

Trauma is considered secondary ethological factor.

In 63 per cent of the cases reported in the literature an on the case of the arm as a involved. The tumors grow a nerve of the arm was involved. A section give slowly and usually develop in the region of an articolation or here a nerve perces a intermediate lation or here a nerve parter in micromoscosi septum. They are attached only to the herre and acptum they are attached only to the herve and are morable. The chief subjective symptom is put. are movable. The chief subjective symptom is para capecially on movement of the extremity. Motor especially on movement or the extremity where is unusual although fullpability of the neutrons is unusual authors tausatoury or the extremity may be noted. The turnous are manify description may be noted. The tumors are usual discovered by chance, and a hen first seen by physician are usually the size of a wallent.

nysteran are enemy the miss or a water.

In the differential diagnosis the necessary t rule out imports of the akin and subcritaneous traces, out timors or the sain and succetaments traces, mence, and none a) novast () has convert exemp-affice aneutisms management furnors of nerves and von Recklinghansen disease.

nn securing assessed and the securing an cassified as gliomata. They were all encapsulated They beneated mycomatous structure and charge Anny promented mynametrous accounts and cyma-degeneration. On microscopic stansmation they cegnueratara. On microscopic examination tory sero found to be made up of its 13 Per of these (i.) a compact mass of fusiform cells with fast, (1) a compact mass or remeater come with the figure of the first structure, and ( ) a loose reticular canny monustry structure, and ( ) a score renouncement of branching stellate cells. The author states must be or prancing mentate crust. The author states that such tumors are formed from the sheets of tast accu tumors are named from the source of Schwann and are of ectodernal origin. They do not ocurram and are metrodernal origin. Lacy so not contain here elements, and here only a slight rescontain new elements, and near only a supar rea-tionship t certain comparable tumors of the central

As treatment, Sarrost recommends ( ) candes As treatment, server recommends ( ) emonstation, a hen possible, or ( ) resection of the timer and tion, a nen possines, or ( ) reservation or the timese and here. The latter procedure should be exerted for nerve the interpretation of M Jorse, J. M.D.

Gernet, H., Ducroquet, R., Issac-Georges, P. and Macé, M., Assrodhromatosis ith Cuttossus Mack, M. Astronomonatons in Controlled and Bony Changes (Forms frace paracture et emette de la actroficometane). Presse med Par

Bone lesions have not generall, received sofficient Done sensor cave not general. Pectival success
attention 25 countral part of the condition keep. accounts as casanias part of the concensus and as you Reckinghanson, ducase. A review of the the return shows that children with account anomalies ogicin have codes coposed marys on the sym (destroy) with those found in you Recklinghonen cheese athough there may be no neuromata or cutaneous

Some individuals lith on Reckinghamen decase beneat sarious processes of contents in he such as deslocation of the hip and spins hadds There as also a processas on the mp and as an once a second as a sale a group about he bony dystrophes recentlent outcomes as the result of the condition de formation of the spine, face, head, or thous may be present, apontaneous fractures may occur and prosent, questaneous tractures may occur and decrease in the density of the bones in shore by roentges examination MARKEN POORE, V.D.

cancers of the small round-cell variety, six squamous epithelial cancers, one keratinizing epidermoid carcinoma, and one adenocarcinoma. The tuberculous lesion was of the healing fibrotic type and apparently of long standing. Most of the patients had had a cough for a number of years. In two cases there had probably been a recent dissemination of the bacillary infection causing a slight exacerbation in which the advancing cancer may have played both a biological rôle by lowering the patient's resistance and a mechanical rôle. In some of the cases the malignant condition developed independently of the tuberculous disease, while in others it was engrafted on the old fibrotic infection.

Two morbid conditions may be associated in the same organ in one of two ways. They may meet accidentally or one may play a rôle in the causation of the other. The author's cases presented both

possibilities

As cancer is a debilitating disease it is occasionally complicated by an exacerbation of a pre-existing smoldering tuberculous process. It is noteworthy, however, that in a few of the reviewed cases in which active tuberculosis developed subsequent to carcinoma the infectious disease was confined to the lung involved by the tumor. It is possible that in these cases the release of the "immured" tubercle bacilli was due to immunological as well as mechanical factors.

The problem of whether pulmonary tuberculosis may be responsible for the initiation of a primary carcinoma of the lung has been a subject of discussion. Some investigators have agreed that in many cases there has been an etiological relationship between the two maladies, and the literature contains reports of cases of cancer originating in a tuberculous cavity or a tuberculous scar. However, careful study shows that cancer cells found in a tuberculous cavity had their origin in the bronchial wall and invaded the cavity secondarily

The author emphasizes that the possibility of malignant disease should be considered in the cases of all persons of middle age or older who are suffering from a chronic pulmonary affection with persistent symptoms, particularly when there has been a progressive loss of weight and strength, and that the presence of pulmonary tuberculosis does not exclude the presence of a malignant process in the same lung loseph K Narat, M D

#### Johns, E. P., and Sharpe, W. C. Primary Pulmonary Sarcoma 4m J. Cancer, 1935, 23 45

The incidence of intrathoracic tumors shows an apparent increase which is much more rapid than can be explained by the general increase in the incidence of cancer and is probably due to better diagnostic methods and increased human longevity. It is evident, however, that the increase resulting from improvement in diagnosis is due to the more frequent recognition of pulmonary carcinoma. Primary sarcoma of the lungs still remains an obscure and comparatively rare condition.

The authors report a case of primary pulmonary sarcoma in a patient eighteen years of age who complained of a persistent cough, hæmoptysis, and slight loss of weight Physical examination revealed impairment of resonance over the upper right chest and widening of mediastinal dullness in the first and second right interspaces anteriorly and in the interscapular region on the right side posteriorly. Over the first and second interspaces anteriorly the breath sounds were bronchovesicular in type. The heart seemed to be slightly enlarged to the left, and a systolic murmur was heard about half way between the pulmonic and mitral areas.

Repeated sputum tests were negative for acidfast organisms Stereoroentgenograms of the chest revealed a moderately dense, homogeneous circular, discrete deposit 2 5 in. in diameter occupying the inner half of the right first and second interspaces

Death occurred fifteen months after the onset of

the symptoms

At autopsy, the right pleural cavity was found practically obliterated by firm fibrous adhesions and it was impossible to remove the right lung intact On removal, the lung was discovered to be replaced almost entirely by a crumbly, grayishwhite, hæmorrhagic tumor mass. Only a narrow rim of atelectatic lung tissue was seen about the margin of the new growth. The tumor was very friable and broke off readily into large, soft, translucent, grayish-white masses Throughout, it showed extensive hamorrhage Its central portion appeared to be cystic and filled with blood clot and necrotic tissue Medially, it could be traced into and along the right main bronchus to a point about 15 cm above the bifurcation of the trachea The right bronchus was entirely occluded, and the growth encroached on the opening of the left main bronchus. The tumor was not attached to the bronchial mucosa, it appeared to be growing along the lumen of the bronchus It occupied also the lumen of the right pulmonary vein and extended along this structure into the left auricle. The left auricle was practically filled by a firm, brownish-red, oval mass of tumor measuring about 4 by 2 cm. The tumor lay free in the auricle, but appeared to have invaded the intimal lining of the vein. There was definite obstruction of the auriculoventricular valve. The left lung presented a number of small, firm, discrete nodules, the largest of which was about 4 mm in diameter The liver appeared normal externally, but on section presented several small nodules, the largest of which was about 5 mm in diameter

On microscopic examination the tumor was found to be extremely cellular and composed of round and

spindle cells

Exclusive of pulmonary lymphosarcoma, which is not regarded as primary in the lung, pulmonary sarcomata are usually classified on a morphological basis into two groups—spindle-cell sarcomata and round cell sarcomata. The spindle-cell sarcoma, the more common type, occurs as a circumscribed tumor in elderly persons. It usually grows slowly and

he developed in cases which were definitely inoper no caveauper in cases which were community inoper-able. Its object is irradiation of the breast, the and, the appraciationiar region, and the mediastinum.

Linto the broast Hutchleon inserts needles in three tano one presset ituricamon inserts nontes in turce planes parallel with each other and apperimposed to panes paraises with each other and separantessed to orm a cose with its point at the nipple. The lower seam a tree with its pean at the importance and available consists of needles inserted from the periphery pean counts or server memors from one permany of the breast, undercutting the breast fited at its these nordies are parallel with each othernot arranged in the form of the spokes of a beed Their points therefore approach each other closely Above and below but not in the central portion and the mpple. The second plane consists of uncertying the impact. The second plane commet of another group of needles inserted in the same mannor but located halfs, y between the best plane and the point of the bress, the nipple. Of necessity the res points of these needles approach each other more reacts or react reacting abstract carriorant mean page. The last and most superficial plane consists of a Age rate most superiors peans comment or a single radium needle inserted fast beneath the argole angue angues to all the other needles. This final at right angue to all the ounce account needle covers the region at the spec of the cone not section distribution and regions at the spec or the come not anomy susquarray current by the steps as yet to the needles. The effect schlered is that of a cons of radio-active foci with or unmarked put not containing needles contral zone adequately

In the axile the author learns needles from below appard in the anterior and posterior arillary folds, in the chest wall, and in the lateral anillary wall in chose relationship to the great vessels where the let the enter the upper arm. The general effect is that ter cuter the upper arm the general eners is that of a cylinder of needles in the four walls of the or a cytimer or necessary in the most beautiful and the appear of the smile is covered by inserting two or three needles because a constant of meeting my two or turns accuses persons with and rare occors the clavicle, politiling laterally two or more needles the converse presenting instituting two or insure notices from above downward, above and behind the clayles into the spex of the stills and three needles from before backward tangential to the nite needles from

The supraciavicular area is uradiated by inverting three needles into the sternocladomastoid muscle tares assume into the atemoramomastical miscon-from its medial border interals and and then introfrom its owness series the posterior triangle of the neck so that they almost but not quite meet the the nact so that they attract that they quite nact the first three needles. In addition, needle is issuited vertically across the heads of each of these two groups of needles (in the relation of the back of

The medianism is irradiated by mirodacing three gold seeds into the anterior mediastinem through each of the upper four intercental spaces The insertion is made obliquely t the crips of the the minutes is made under the edge of each of the adjacent mbs, one seed being deposited at each of these points After all of the needles have been introduced storecooper roent genograms are made to verify their distribution The needles are left in position for

mannumon too needen are set in position in seven days. The arm is placed in suitable apliet rested is this manner the gratifying results, but the

series is too small to nairant definits conclusions J DAME RILLING M D

## TRACHEA, LUNGS, AND PLEURA

Overholt, R. H., and Pilcher L. S., 2nd Changes in whole M. II., and Fixther In dr. one changes in Venous Fracurs After Thorseoplasty In the one is remous removes Arter successorates in on afficance in Relation t the Extent of Rib Re moral. J. Thruch Suy. US-41 also.

Estimations of renous pressure a sre made before communicate or remember presents were made series and after operation in a series of cases in lack and street operation in a street or cases in such thorseoplasty was done. The significant alterations of schools beautife found occurred on only one age or predominantly on one side. It is important to distinguish between undateral elevation of the vemous pressure which is of mechanical origin and pranorm became a success of m merumanas only a see tracardiac crigin. As none of the cases showing use patents of the Actions become becomes presented of the Actions of expenses of cardiac junificiency. If was estimated especies of extense manufactory is was examined that the venous disturbance was due to local me that the vesses the torone was use to seem on changed conditions resulting from the disease or

communication to the college procedure.

In the cases with unitateral elevation of the v nous pressure before the operation the derated

pressure was corrected by the thorseoplesty When the first stage of the operation is limited to the upper three or four ribs there is kittle highlaced

of disturbles a normal his-obstative across bigging and on the character and the cha The exection of more than four rule (completely or in long acquents) frequently disturbs the vesces tetura on the side operated upon

turn on the second stage of thorscopiasty is per when the second stage or instructionary is per formed within two wrets after the first, an elevated remous persons on the axis operated spon may be expected.

The authors were impressed with the relationship pers can bostoberstive elevated across beamers and or nom precoperative devates venous jamests and what, was considered poor toleration to the amount man, was consecuted provide pressure for the assured to indicate an excessive degree of collepse

Knowledge of the condition of the venous circular tion obtained by measurement of the vincous pressure has seemed to be of value as t bes asided in the estimariles of the extent of up removal which will means wide margin of safety during convalences and has been one of the factors convincing the eathers that the account operation should not be done so soon after the first that the effect of both equals the effect of a too-extensive single operation

JACON M MORA M D

Fried, R. M. Bronchlosenic Camer Combined with T berculosis of the Lauge. An J Conce Fried reports thirteen cases in which both taber

colons and cancer are present in the same land The patients are men ranging in ats from fortyfive to severify-one loans. In ten cases the transwas on the left side and in three on the right side. The poer lobe was mystered in clean cases and the lower lobe in two. The neoplemen uncluded five

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without the formation of metastason. The roundvisions the membrane or membrane are visit of a strong a very collular times composed of cell acroms in young persons. and brokings tability. It is shi to be accombanied to the accombanied to the following the same and the same to th by hemorrhage and merceis, but show hittle tend-

The timor described by the authors presented And tunes to both types Historically peace or commence to some types an accompany to the two types of cells are cells similar and undoubtedly have their origin in a common progenitor. doubtedly have their origin in a common programm.

The variation in the cells is due to stages in the los vantatos in tos cam a dos to sasges in tos differentiation of the original cell type, the spindle consequences or the outpost can type, the spinors call being the more matter form. This interpretation regests that the morphological classification repre sents only a superical difference in the various serromate of the lung, and that primary polmonary serconnecte composed of round cells and those composed or sprague cam arms to on common com-type, the variation in calls being due to stages in type, the variation in these reing time to stages in the differentiation of the primitive mesonchystal

By some, the septal cells are believed to belong by some, the sepan cars are orneved to teams to the reticulo-endothelial system. This conception of the mesodermal origin of the septal cells makes it caster to indentisad the development of surcome cases to understance to development to mechanism the primonery alread and suggests a possible source for the timor in the case reported

JOSEPH K NAMES, M.D.

#### HEART AND PERICARDIUM Bernabeo, E.

nabso, E. The Experimental Pathological Anatomy of Pericardital (Anatoma pathological symmetrials delle percerdita)

And the for the

Following a review of the characteristics of the taches types of pencerditis which have been detinguabed on pathologon-anatomical or etio-pathogonic bals, the author reports experiments paragraphy man, the annex reports externoons which he carried out on dogs to study the moceanies where we cannot out to tage to many the assuments.

Magne of the development of the condition and the sages or the development to the electron and the effect of the percurdits on the myocardium. The pericarditis as produced in the experimental and mais by lajorting Dakin solution late the percarding, and its development was followed by rocat gen examination From therety to one knodred and enty days after the injection the animals were talled and the percardium and my ocardium examned macroscopically and microscopically

In discussing the results of these experiments as measures one remote or new experiments. Bernabeo calls itention to the difficulty of compar ing the rifficulty produced assettle inflammatory the contract products assets missions or the contract of the c ensult of infection. The severity of the changes is the pericardism and myocardism are found to be tooksily proportional to the concentration of the solution injected, and the invocardial damage varied is degree with the pericardial injury From his findjudg the author concludes that in the smeary of the percendium chicked estimate of the condition of pencarumni to of the greatest importance

DIGES T LEDOT MD

GESOPHAGUE AND MEDIASTINUM Persion O. Seaffored French Rodin Uniter crackacte Frenchospe), Ace clearly send

The author reviews 5 cases of as allowed foreign bodies which were treated in 7 large Swedish Rice comes which were needed in 7 mags oversam more place during the period from \$1 to 1929. In all the clinical districts as proved by sportascool exacustion operation or romigra examination The eracus too, operatoo, or reentgra examination the factory is emphasized. The case are charled according to the nature of the object are cases according to the matter of the course of the station states that the majority of realized opinits are executed spontaneously with out consing the suphest trouble or discomfort. Such out causing the suprime transmit or maximum countries the case when the object is round. Spontaneous as one case when the object is round photocomes as the case of operactation may be expected asso in the tase of our section which are pointed at one end only such as orthary plan alrey plan themb tacks, nells, sail On the other hand experience above that objects which are pointed at both code sock as copents was as passed as a constraint as the constraint and provide the constraint and provide the complexations. Persons therefore believes that passed the constraint and provide the constraint and constraints. tents a ho have swallon ad an object which is posted at porty and abound he kely under the critical op-

acresion in a hospital, whereas those who ha servation in a computer, marries may meally be kept under observation as out-patients. He regards acts once over versus as outpersens are repaired to determine the nature of the swallowed object. He outpenders that reliance should never be placed on the history sloss.

considerable number of the cases reviewed in the constraint manage of the case of th operation (menuty gaserotomy) was tune to recover the foreign body but the author believes that in most of them it was not indicated as their were so sympto them it was not immediate as that will an eping-town or algan of III affects. Operation was presently to save life in only a few cases. The reason for most of the carry operations seems to have been the fair that spontaneous evacuation would not occur

The other reports I cases in which the foreign body became lodged in the crophagus and its extrac tion by emphasize opy as out of the question. By mense of a soft stomach (ube the foreign body was preshed down into the storeach for exercisin by

Finelly Perslow reports in detail four cases of foreign bodies lodged in the lowest portion of the carobystin in appen to beated attendes at antiscuss or treatment or tree where to extract or tree where by coopleaguecopy were memorated in all of these cases the foreign body was removed by laparotony The stomach was opened sufficiently to show the whole hand to be introduced and the foreign body brought out through the ca die by Donas of long pair of forceps

ar or terceps

I the author openion most cases of reallowed foreign body should be treated expectantly by the administration of bolky foods and restriction of accommendation or borry soons and restriction of the foreign body should be followed by roestern examination. If the foreign body tends t remain in the Househ, the patient should be put t bed on his right side 11 h emains in the Occum to one or regarance at a furthered by raising the foot of the bed

The author warns against giving laxatives In his opinion operation is not indicated unless intestinal symptoms or symptoms of peritonitis appear or until repeated roentgen examinations have shown the foreign body to be impacted. A roentgen examination should be made immediately before the operation.

Austoni, A Cicatricial Stenosis of the Œsophagus, Indications for and Late Results of Its Treatment (Stenosi cicatriziali dell'esofago, nuovo contributo all'indirizzo di cura e sugli esiti a distanza) Clin chir, 1934, 10 1206

Austoni, Chief Surgeon of the Municipal Hospital of Verona, reports in detail a case of cicatricial stenosis of the esophagus of long standing in which, after other methods of treatment had failed, retrograde dilatation with a sound produced a chinical cure He discusses also six cases in which a good result was obtained by the same procedure from ten to twenty years ago. He emphasizes that in even very severe cases, retrograde dilatation may result in a permanent cure if it is carried out far enough (to at least the passage of a No 34 dilator) and is continued until there is no further tendency of the stenosis to contract. As many cicatricial stenoses have a tendency to become recanalized spontaneously to a degree sufficient for the passage of a thread attached to a dilator, the surgeon should not be too hasty in concluding that a given stenosis cannot be dilated Austoni has found retrograde dilatation safer and generally more satisfactory than other methods of treatment He shows its results in two cases by roentgenograms. He is of the opinion that in all cases of lye burns of the esophagus early retrograde intubation of the esophagus is advisable to prevent cicatricial stenosis or to facilitate treatment of that condition in the initial stages

EUCENE T LEDDY, M D

Incze, J A Case of Primary Tuberculosis of the Esophagus (Ein Fall von primaerer Speiseroehrentuberkulose) Arch f path Anat, 1934, 293 540

Tuberculous disease of the esophagus is extremely rare. It is usually the result of implantation of the infection following an erosion, encroachment from the surroundings, or hæmatogenic or lymphogenic infection. Primary tuberculosis of the esophagus has never been reported heretofore.

The case of primary tuberculosis of the esophagus reported by the author was that of an idiot boy ten years of age who, twenty months before his death, swallowed caustic soda and developed a stricture of the esophagus. For a time he was nourished through a gastric fistula. After dilatation of the stricture the fistula was closed. Death resulted from miliary tuberculosis

Autopsy revealed, in addition to miliary tuberculosis, two constrictions of the esophagus, one posterior to the cricoid cartilage and the other at the level of the bifurcation. Between the two strictures the lumen was somewhat dilated and the

mucosa entirely denuded of epithelium. The entire thickness of the wall of the æsophagus was infiltrated with tuberculous nodes varying in size from that of a millet seed to that of a pea. Some of the nodes were caseous. In the connective tissue around the æsophagus in this region were large lymph nodes, some of which were entirely caseous. In the other organs only miliary tubercles were found. It was apparent, therefore, that the tuberculosis developed first in the æsophagus in the region of an epithelial defect produced by the action of the caustic soda and that the miliary tuberculosis was secondary.

(SALZER) LOUIS NEUWELT, M. D.

#### MISCELLANBOUS

Dunhill, Sir T Diaphragmatic Hernia Brit J Surg, 1935, 22 475

Dunhill reviews twenty-five cases of diaphragmatic herma. In eleven, the esophagus was of normal length and a part or all of one or more abdominal organs was hermated into the thoracic cavity. In the fourteen others the esophagus was congenitally short and a portion of the stomach was in the thorax. Of the eleven patients with an esophagus of normal length, eight were carefully investigated chinically and roentgenologically and finally operated upon. The fourteen patients with a short esophagus were studied less completely as most of them were not treated surgically.

The cases were classified according to the site at which the abdominal organ or organs entered the thorax. As none of the hermic had followed a known injury, they were all assumed to be of congenital origin. The sites of the hermal orifices were as follows retrosternal region, one case, left dome, two cases, costovertebral region, three cases, and exophageal region, mineteen cases. The cases in which the hermal orifice was in the exophageal region included three of herma diaphragmatica transversa, two of para-exophageal herma, and fourteen of short exophageus.

In the case of hernia through the retrosternal attachment of the diaphragm a barium meal or an enema showed the termination of the ileum, the excum, the appendix, the ascending colon and the transverse colon in the thorax. There was no splenic flexure, on leaving the thorax the colon descended directly to the left iliac fossa. The exophagus entered the abdomen in the normal position, posterior to the pericardium, while the herniated viscera entered the thorax anteriorly immediately behind the lower end of the sternum. The sac and its contents occupied the anterior mediastinum, resting against the pericardium and pleura on the left and displacing the right pleura and lung backward and to the right.

In the cases of herma through the left dome of the diaphragm the hermation was actually through the substance of the diaphragm—not through any of the natural openings Roentgenograms showed the cardia and the pylone portion of the stomach in the

abdomen but a large portion of the middle of the stomach in the left thorax, displacing the mediant ann, pericarchum, and heart to the right. At operation to portioned are was found. Dense adoperation is positioned and was some course according to the margins of the nexture to the compressed lung. The storacts was totated on its arise comparement rung. Loo atomaca was to tated on its arise and the spices was above the disphragm. The stomach was greatly diluted and majoring in the susuand has seemly mater and filled with gas Deflation was necessary before it could be replaced in the abdomen Gastrostony was done to give temporary cuit to its gracous conwas done to give temporary care to the association tents and relieve the patient of postoperative discomfort

Roentgeocogical examination of the bernia Komiganosogum casamanan through the contovertebral angle showed. (1) Dor tion of the stomach and transverse colors in the left thorax (3) the abole storach, including both thoras (3) the storas and (3) the storasch angulated orners, in one more a money of the summary and market over the edge of the disphragm. The author states in each of these three cases the herain was due to congenital absence of the left crus and the muscalar contents someone with it. In one of the cases both mera commence with the displanta having no crurs were assent, the cosperagor mering as posterior attachment in the region of the vertebral

action.

Hernie to the region of the enophagus are of the following three entirely different enatorated types Hernia transverse disphragmatica. This is due to non-development of the disputagements are a una the biatus. There is a gap between cas matter. Attend as a gap not well ensurement and perfectly free posterior margin of the displication which bounds the sec anteriorly and the vertebral which bounds the sec amenacy and the common and the adjoining parts of the paravertebral prooves which bound it posteriorly groups which couldn't presently amount on mediations. The defect is therefore beside the incomplete disphragm

Para-craophagoal herms. In this condition the histors is present but dilated. The herolal sac passes up through the hatter lying beaude the emphagen 3 norms associated who congenitary associated the cardia and a portion of the stomach are attracted within the portion of the summer are attention attention the bornated portion of the storage h toors the sermence person of the sussensial surrounded by personnel sec, so that true because exists. The stornach is the shape of an horrgises, the cardiec locales being within the thorax and the pylone loculus within the abdomen In disphragmatic barms the s) mptoms simulate

those due to gall stones. J DANIE WHERE, M D. Forty P Consental Bernis Through the Right Dome of the Disphragm. Best J Surg 205, ex

The author reports a case of acute intestinal obstrection in man seventy Jers old which was consed by a herois in the right dome of the dis phragm, the rarries are of disphragmatic herms The patient complared of constipation of an days' duration Before the development of the concars unsature records the terremposite or one con-chition, bowel action had always been regular. The

constitution as accompanied by general abdominal pain, frequent youtling, and hiccorching. Many house, but have been been fairly to be a second to be a seco years previously the patient had been kicked in the years previously the persons men occur assess on the chest when he fell from a horse. On examination, he second in good general health. The abdomen was apparently distended and generally tender and confalsed free faid. At operation, the free faid famon ites annu. At operating the man and found to be blood-stained and the entire small astertino distracted and conpasted. On invastigation, director opening was sert in the right dome of the

Citimas opening was set in the figure office of the daphragm. Through this opening approximately the last 5 ft of the small intesting had peaced into the control of the co the right pleural cavity this acrocating for the the right person carry can according to the development of the intential obstruction. The occupanisms of the management constraints are aspectable had penhad up through the opening stong with the intestine. The execut lay immediately

The patient died a few hours after the operation apparently of paralytic flers. On postmorten casalastion an almost circular opening 16 In in dispector was found in the right dome of the dispersum interest was rooms in too tight course or the comparing more districtly to the right of the pericardium. Fosterory this opening as bounded by the right leaf of the ceatral tension Anteriorly and intensity the contain course toward for the disphragm ended in its margin. The pleasal and peritonesi cavities communicated treely through the opening. A heroid sec as persent The picural and peritoneal arous meahancs a cre continuous over the margia of the open ing which was perfectly amouth and free from ad

Truesdale, P. E. Dispiraginatic Herais at the Geophicial Histor, the Eloct Geophica. and Thoracic Stornach. For Explanate, 140

The author reports the fourth of a series of six case of disphragmatic hereis at the cocycleges had in adults. He calls attention to the similarity of the symptoms to those of angine pactors. Is repairing these harnise he has found the transitionack sproach best because () it is easier to car down on a hernia than to poll it from within () adhesion which meally form between the bernul are and the thoracle Berra 18 mable and (3) the hernial me

From study of the reported cases of constraint short enophages and therace storach and of the sembryology of the cerophagus, daphragm, and stocach, he concludes that the length of the cerophagus, ages is dependent upon the traction of the storach don as and In the normal position the stomack is constant in the normal position the accuracy is pulled down by the liver transverse color, and communa. This traction is transmitted to the casphagus and lengthers it. When it is short the canophagus remains short | ery frequently there is

casopasgus remains anort buy irrepeasel faints.

a congredial enlargment of the encopyageal faints.

On the bests of these facts and the findings of he anatomical desections and operations. Truesday advances a new theory regarding the ongis of congenital thort croppings and thorace stonach According to this theory the thorace storack

is the result of herniation through a congenital enlargement of the esophageal hiatus and may occur at any time after birth. If the hiatus closes before the stomach returns to the abdomen the stomach remains in the chest and establishes itself behind the pericardium. This causes a slight slack in the esophagus which is taken up by future growth. However, continuous traction on the esophagus is lacking and the esophagus remains short.

#### Rigler L G, and Eneboe, J B The Incidence of Hiatus Hernia in Pregnant Women and Its Significance J Thoracic Surg, 1935, 4 262

A roentgen examination of the stomach was made in the cases of 195 women in the third trimester of pregnancy. A small herma through the œsophageal highest had been and 18 I per cent of the entire number and 18 I per cent of the multiparæ. In 7 cases the herma was not demonstrable after partuntion. There was no definite correlation of symptoms with the herma. Increased intra-abdominal pressure such as is produced by pregnancy, especially when repeated, appears to be an exciting cause for the formation of œsophageal highest herma, even in young women.

Jacob M Mora, M D

Andrus, W DeW Report of the Chest-Tumor Registry J Thoracic Surg , 1935, 4 236

At the present time the Chest-Tumor Registry contains records of 155 cases of chest tumors. These cover a wide variety of neoplasms and have been submitted from 28 clinics. In addition, roentgenograms made in 22 cases, photographs made in 16 cases, microscopic sections of 36 neoplasms, and tissue from 3 tumors are included in the files. This report deals with the 117 cases in which the diagnosis was definitely confirmed by biopsy, autopsy, or operative removal of the tumor. The remaining 38 cases were those in which the diagnosis was unproved and a few cases of metastatic tumors.

The types of tumor and the number of each type are as follows primary carcinoma of the lung, 64, sarcoma of the chest wall, 16, lipoma of the mediastinum, 3, intrathoracic ganglioneuroma, 2, osteoma of the ribs, 2, echinococcus cyst of the lung, 1, sarcoma of the pleura, 1, sarcoma of the mediastinum, 7, mediastinal Hodgkin's disease, 2, myxoma of the mediastinum, 1, carcinoma of the mediastinum, 1, cysts of the lung, 2, pleural endothelioma, 4, sarcoma of the lung, 4, and dermoid cyst of the mediastinum, 7 A brief review of the various lesions is presented

Jacob M Mora, M D

# SURGERY OF THE ABDOMEN

GASTRO-INTESTIMAL TRACT

Aorindor, E. Complications of Foreign Rodies in fluore, E. Computations or younger mouses in the Stomach (Let Kennish der Komputations has Frankfluoriery in Magne) the Cherry

The sutter, sports a case with a septic clinical the sutage sports a case with a sepace control of the subject of t perforation of the atomach wall and heating of the

permeasure or the attention was and making or the state book remained stationary in a chrosic sing the sta boog emained stationary in a concern shows surrounded by perturbing strong these Secondary indextion then developed these secondary indextion then developed to the street shore, through acrite flering up of the process pro-Note, tarough active maring up to the process, pro-Denote indupe successed and two men consumer and the consumer cons americans owner outsolder too majoring or own by a Pictora.

This ness case of the rat perforation of a foreign body by the formation of a granulation tumor Britisht C

Collective Inquiry by the Fellows of the Amodation of Surgicons into Castrolei and the Association of our security of Utceration. Bril J Siri RIS

The author states that the findings of this collecthe inquiry regarding the incidence of participand decreasion is extremely radiathe despit the fact that of 5,664 patients operated upon for peptic ulcer

my Jose course to traces

Posterior Eastropeanostomy \$25 performed on Fosterior Patroscipinostony aus performed on 714 Patronis Of the 715 for the factorior of Patronic of Patrological Victorior was proved by a provident of the factorior was proved by the factorior was provided to the factorior of the factorior o operation in 270 (a of per cent) and diagnosed on the operation in 70 (4 at per tent) and ungestioned on the base of 1 suppliers a 77 (4 45 Per cent). Castro-

name or Suprome a 77 (4.45 per cent) treated as therefore demonstrated or supported in a total of 8 49 bet cant Of 85 patients with pastine ulcer bo era treated

by posteror parrogramment of the factor of the factor parrogramment of the factor of t as broad poblished in Secretary or Secretary and Secretary and Secretary or Secreta As proved b operation in 7 (3) per crus) and dispensed on the binary far indicates per crus) and demonstrated or proved in dispensed as as the first per crus and a second control of the crus of the Of \$5 fraced patients a borete extend to an extended patients a borete extend to an extended an extended patients and extended to an extended to an extended to a section of the extended to a restroyeumostom for doodenst other pastroyeums the emonstrated po observing man beautiful to 1, 100 to bet (cut) and destroyed on the pasts of 1 mptoms

(35 per cent) Their total incidence as therefore o 4 per cent Of 5 traced patient denti ulter by anterior pastrojejunostemy with CERTAL WICE OF STATES PRODUCTION STATES OF THE STATES OF T

construction and personal and disposed and the special and the antificial of operation a far that and magnitude on the base of amplicate in a per cent and the period of the far form fore 8 per cent

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longy for decident along experienced no complex the patroximal lesson, but if others are not traced Of 894 patients treated anniarly for patient traced to see traced. Of the latter formers to bearing

nice 100 see these Of the later Rainsystems to provide 11 ( 5 per cent).

OF 12 per cent and best of the parties Polytoper Company of the parties Polytoper Company of the of battonelous speak as made in the case of

(a.50) per cent.

Of 35 traced patients who were subjected to Billioty | chesaves between any area and Billioth | operation for deoderal after our our of patron paral of creek as made on the hast of 3 per or past 10/9/2021 to the main makes on the hand or past of 5 ( per cent) Of 5; patient and before the fall of 5 patients of 5 patients for past of 5 patients fo

subjected to Bullroth I operation for partic over a min (1715 per cent) or disposed on the basis of managements of the basis of the particles in VII per ceasy to compared on the service of specific for the service of sects of these patients was therefor III per cent

it is of interest that of the 116 patients traced of the costs of oct position of the The introcast access in nount note quacioned accordant inclusion from the total of out to acus received not starting the total of out to acus received not starting the total of out to acus received not starting to acuse the starting notes according to the st The author coordaries that accordary accuston. in about 5 per cent of patients subjected to posterior Brainoletinostomy for quotient ministra

in the case reviewed, ansatomatic along occurred 85 times and fermal nicers on times In the treatment of secondary along socal open-

the treatment of secondary ments are the treatment of the of underst the guaranteering and restoring to consult the parameteristicity and feutro in technical continuity acres despised in 30 per resulting a continuity acres despised in 30 per resulting a for her a core was consumed in or has tree for the first term of the form of the first term of the fir mptom cre mattered in 4 per cent The cases

Appropriate for manufactured in Aper cent. The control industrial of a new parameterization of a new parameterization when the table in the case of a first proof result in only a first parameter of the cases. Assume that the case of the cases of the case of the cases of the cases of the cases of the cases of the case of the cases of the case cut on the cases of controlling resource in the case of the posterior Polya reserving and mortality of 30 per cent and the anterior Poly manufacture a super cent and one american (w) of the latter type of reaction were less satisfactory then those of the posterior tipe

When the general results of operating treatment of secondary accuminon aces aumorated they cre

or secondary secondary are summarized they are also found discourages. While at the first serior strength of the case food result as obtained in particular of the cases food result as obtained in commercial for the cases food results are served for the commercial for the commercial forms of the cases of a per tent or too cases, or per cent or too persons or required fatther operation, and almost as many died as result of the operation, and passessed died later as result of the operation, and patients are using over an the easit of alcoration. Of the 75 patients and later as required further operations to he had been assessed in the contract of the 75 patients. required farther operation or operations up to the present traces, to are restored to seed or late health

still be supplement a good or an occur of the course of th taced When the results in the cases requiring more than one support Afort entire at western it is found that remonable good rengths or obtained in

39 per cent but symptoms were still present in 9 per cent. Including operative deaths and deaths from secondary ulcers without surgery, the total number of deaths was 104. This means that 22.7 per cent of the patients suffering from secondary ulceration are known to have died. The complication of secondary ulceration is therefore disastrous.

Samel I Focesson, M.D.

Grilli, A. A Contribution to the Clinical and Roentgenological Study of Postoperative Peptic Ulcer (Contributo allo studio chinco-radiologico dell'ulcera peptica post-operatoria) Radiol med, 1934, 21 1361

The reported incidence of postoperative peptic ulcer varies from 1.1 per cent (Balfour) to 33 per

cent (Berg)

The lesion occurs far more frequently in males than in females and is most common between the thirtieth and fortieth years of age. It may occur immediately or many years after gastro-enterostomy, but the average period of time between the operation and its development is from two to four years.

It usually occurs at the stoma of the anastomosis. It may be single or multiple. It has occurred after every type of gastro enterostomy. Anatomically, the pathological changes are similar to those of gastric or duodenal ulcer. They may be limited to the mucosa, involve all of the coats, or perforate. Their pathogenesis has not been determined definitely, but their occurrence is undoubtedly favored by mechanical and traumatic factors such as irritation of the stoma by poorly digested food during gastric contractions, the presence of silk sutures, trauma from stretching and pulling on the stoma by gastric and intestinal motility, nervous factors, modification of the blood supply to the stoma, a constitutional predisposition, foci of infection, and hyperacidity

Like the original lesion, the postoperative ulcer is manifested by pain occurring after eating and re lieved by the ingestion of food. The pain usually occurs in the left side of the abdomen and may or may not radiate posteriorly or downward. Hæmor

rhage is a frequent complication

The diagnosis is based upon the findings of careful roentgenological study. No one technique is applicable to all cases. Proper preparation of the patient is important. The stomach must be empty in order that the mucosal folds may be visualized. The stoma is localized by following the convergence of the folds. The examination should be begun with a small aperture under the fluoroscope. With adequate compression the nuche as well as the form and size of the anastomosis and motor function may be shown. The best results are obtained with the patient erect because this position usually eliminates false niches due to mucosal folds.

The author reports the roentgen findings in seventeen cases of postoperative duodenal lesions. Two of the lesions were originally gastric. Eleven were ultimately confirmed by surgery.

SAMUEL J FOGELSON M D

Emery, E. S., Jr., and Monroe, R. T. Peptic Ulcer Nature and Treatment Based on a Study of 1.435 Cases. Arch. Int. Med., 1935, 55 271

This report, which is based on nearly 1,500 cases of peptic ulcer, is largely an evaluation of the results obtained after medical and surgical therap. The conclusions drawn will afford valuable guidance to both the internist and the surgeon in the treatment of gastroduodenal ulcerative disease. Evidence presented shows that ulcer is a chronic disease, our present methods of treatment are merely palliative, and cure is probably rare. The aim of treatment should be not only cure of the ulcer but also prevention of the appearance of other ulcers which are called "relapses"

The most important etiological factors in recurrence seem to be fatigue, emotions, and infection While peptic ulcer rarely causes death or shortens life, it may be responsible for loss of time from work, it limits the range of the patient's activity, and it necessitates a change in his mode of living and regu-

lation of his diet

Of the patients whose cases are reviewed, approximately 81 per cent were definitely benefited by treatment, but of this 81 per cent only 32 per cent could be classified as cured A table which compares the results of medical treatment with those of surmcal treatment in 1,258 cases shows that surgical treatment was followed by continuous relief in a higher percentage of cases, but surgical failures were more than double medical failures and operation yielded a distinctly lower proportion of satisfactory results than medical treatment. It shows also that surgical intervention is just as unable to alter the course of peptic ulcer as medical treatment. The explanation for the unsatisfactory results of surgery and the fact that all medical measures gave better results than surgical procedures seems to be that patients who were operated upon were not afforded, or refused to accept, as much attention to their general health and after-care as those treated medi-None of the operative procedures yielded a high degree of satisfactory results Simple posterior gastro enterostomy, the most common operation, was almost as effective as posterior gastro enteros tomy supplemented by excision of the ulcer Pyloroplasty was equally effective Distinctly less favorable results followed operations in which division (transection) of the pylorus or removal of the pylorus or some portion of the stomach was done in addition In condemning radical surgery the authors say, "Removal of the antrum was proposed with the idea that the loss of its hormone would decrease the production of hydrochloric acid. Experience has shown this to be a mistake. Since the operation removes the part of the stomach which has an alkahne secre-tion, it should be abandoned "

To obtain successful results from surgical therapy the operation must be chosen to meet the requirements of the particular case. It is advisable to inform the patient of the nature of his disease. He should be told that although an ulcer does not seriously threaten his and does not tend to progress in severity it may interfere with his comfort and activity from time to time, and that while there is no known means of obtaining permanent cure there are various conservative measures which can make him comfort able and able to work efficiently. Most patients are already definitely coavinced of the chronicity of their trouble before the physician sees them. When their fears have been confirmed and allayed they are transformed from a restless, dissatisfied group wandering from doctor to doctor to one which realizes the need for daily care, attention to hygiene, and occasional modical investigation

Cases of gastric ulter are treated in much the same y as those of duodenal ulcur although they are more closely expervised. Such ulters are, or become mallgrant in only 5 per cent of the cases. If the case of gratric older under strict hospital medical management does not abow healing roentgenologically after three aceks, immethat surgery is advisable. A roentgen study should be made three and

six months later and thereafter at least once a year Harmorthage is also treated conservatively. In or per cent of the reviewed cases the bleeding stopped spontaneously. It is the task of the physician to prevent its recurrence. At present there is no sy of saving the 5 per cent of patrents who continue to bleed until death supervenes for it is only in this relatively small group that surpeal intervention is justified and unfortunately there is no v y of deter mining which patients are going t belong in this group. The theory is prevalent that patients with ulcer are less likely to bleed after surgery than after medical therapy Accordingly there is a tendency to advocate surgical intervention henever a patient has had severe bleeding. The statistics presented do not lend any support to such a theory. Of so patients treated medically 19 3 per cent bled after the medical treatment donne an average observation period of three and six-tenths years Of 55 patients treated surgically 7 4 per cent had enother hemor thage a thin an verage period of four and eight tenths years. Even if correction is made for the difference in the time of observation and allowance is made for a greater tendency t bleed in the surgical cases, t as still clear that surgical intervention does not prevent future hemorrhages any more than does medical treatment

Operation should be done only for definit pur poses, namely to close perforation, to relieve permanent obstruction of more than 40 per cent disclosed by the fluoroscope six bours after a barram meal and to overcome hemorrhapic tendency. It is indicated also when there is reasonable suspector of carcinoms or mahamant degeneration. The operation of choice is that which accomplishes the specific purpose in view and causes minimal interference with the phynological action of the stomach Subsequently the patient should be treated in the same way as patients with elect who have not been oper ted upon During the periods of hy persecretion the

patient should be treated with particular care mod-

ically operation performed at such time is dis-SELFORE. SANCEL J FOREIGN M D

Oglivia, W. 11. The Place of Surgery in the Treat ment of Popule Ulear Learn QUS. 18 419.

Although the operations devised for peptic titer are numerous, they all belong to one of the following three groups; (r) local excession of the along the varying amounts of healthy there and preservation of gastro-intestinal continuity; (2) short circultung operations and (3) gastroctomics. The value of local excluton of the ulter is doubtful

The ulcer hich has been removed is replaced by sear which is smoother than that of a healed older but longer Nothing is done by local excision to counteract the cause of alceration, and the deformity at the site of the excision adds the factor of merkant-

cal trasma.

The caled abort-circulting operations are gastroduodencetomy and gastrojejunostomy. In both of these operations the ttempt is made to sercome starfs and counteract acidity by making an easttomouts between the stomach and small fatestine These procedures do not diminish the secretion of acid, but they fraure neutralization of the acid by allowing the free entry of alkahne fukes into the stomach. Posterior gastro enterostomy is best be cause t is safe and mechanically satisfactory. The resulting stones is large and free from tension and adhesions to neighboring structures. It moves with the contractions of its component parts and the neighboring organs. The operation can be performed Ith great case by the experienced surgeon and n

capable of giving brilliant results

The claim has been made that the arious gustrodisodenal anastomoses are more physiological than gastroje/unostomy because ( ) the new opening is at or near the priorus, and ( ) the gastne carrier passes into part of the intestine which is accustomed to an acid medium. However those advance ing the first argument agnore the fact that the pylorus as a aphincter acting under reflex control and so artificial opening, wherever placed, can assume is function. The second argument is an supported because the rapacity with blch food passes through the duodenum and the first few cuis of the jepantin makes it extremely improbable that the reaction can differ in the ru mice Justapy lone operations are technically much interior to gustroremnostomy Hemorrhage and soling mar their performance the stoma is clumsy fixed, and under tension because of local difficulties and postopersthe leadings in not unknow. As mught be experted, the late results are, on the average, laierier to these of the older and simpler form of anastomous

Gastrectomy serves the following four purposes

in the treatment of ulcer

It removes the alcer itself hen the lesion is in the storrach or the first part of the decoderars. It overcomes any stasts that may be persent.

1 It allows for neutralization of the gastric secretrons by the intestinal ruce.

4 It reduces acid production in proportion to the amount of acid-secreting surface removed

In a series of postmortem operations at Leeds on the bodies of patients who had undergone gastrojejunostomy for duodenal ulcer from nine months to nineteen years before death, gastrojejunal ulcers were found in 22 out of 30 Their incidence was therefore 73 per cent Of the last eighty-two of the author's cases of duodenal ulcer, gastrojejunal or gastrojejunocolic ulcers occurred in seventeen (21 per cent) A patient with a gastrojejunostomy may be comfortable, but he is never safe. Ogilvie believes that ulceration at or near the stoma will eventually follow gastrojejunostomy performed for duodenal ulcer in at least 20 per cent of cases Eventually another, always difficult, operation is required. It may be one of the most difficult in surgery with an average mortality of 10 per cent Five per cent is assumed as the average mortality of gastrojejunostomy, but if 18 per cent of the survivors develop jejunal ulceration which has an operative mortality of 22 per cent, the total death rate following gastro-enterostomy will eventually be 9 per cent As a skilled surgeon will be able to reduce the operative mortality in cases of duodenal ulcer treated by gastrectomy to 5 per cent, the operation of choice which will give the most satisfactory results is therefore the "physiological gastrectomy " SAMUEL J FOGELSON, M D

Vergoz, C, Ricard, E, and Homar, J Contusions and Ruptures of the Small Intestine in Closed Injuries of the Abdomen (Contusions et ruptures de l'intestin gréle au cours des traumatismes fermés de l'abdomen) Rev de clur, Par, 1934, 53 723

The authors review the literature on contusions and ruptures of the small intestine occurring in closed injuries of the abdomen and give the histories of ten cases, four their own and six reported by colleagues. They find that such contusions and ruptures occur most often in the first part of the jejunum near the duodenojejunal angle and next most often in the terminal loop of the ileum near the ileocæcal valve. The reason for their greater frequency at these sites is that the first part of the jejunum may be easily crushed against the spinal column and the terminal part of the ileum may be crushed against the promontory of the symphysis.

Wounds of the intestine occurring in closed abdominal traumata may be simple contusions or ruptures, single or multiple, incomplete or complete. They may be accompanied by lesions of the abdominal wall, mesentery, liver, spleen, bladder, pancreas, or kidneys. Pentoneal hæmorrhages may result from rupture of the mesenteric or mesocolic vascular arches or the omental vessels. Such hæmorrhages are very copious. Hæmorrhages occurring from the intestine in the absence of a mesenteric injury are

less serious

Contusions of the abdomen do not necessarily require surgical treatment. Mild contusions of the intestine may undergo spontaneous recovery. How-

ever, even cases of slight injury must be kept under careful observation in order that operation may be performed at the slightest sign of peritonitis. When there is any doubt, exploratory operation is indicated. Prehepatic tympany and a roentgenogram showing an abnormal subphrenic clear spot are decisive and in association with spontaneous or provoked pain at a given spot are absolute indications for operation.

At operation, the entire small intestine should be examined as there may be multiple lesions. If lesions are found they must be exteriorized and the peritoneal cavity dried as completely as possible Simple ecchymoses may be buried by means of a pursestring suture. It remains for the surgeon to decide whether the injury is serious enough to threaten secondary perforation. If there is any danger, the lesion may be buried, resected, or covered with a graft of omentum by Dambrin's method. However. the authors believe that Dambrin's method is indicated only in cases of superficial lesions. For cases of total transverse rupture, end-to-end enterorrhaphy seems to be the simplest and most rapid method If there are multiple lesions the entire injured segment should be resected. Unless operation is performed within the first few hours it is advisable to establish free Mikulicz drainage of the pouch of Douglas The gauze should not be left in contact with sutures as on removal of the sutures fistulæ may be established. Radiating tears of the mesentery without involvement of important vessels may be simply sutured. If tears of the mesentery are not treated they may cause occlusion from hernia When extensive contusions of the mesentery and juxta-intestinal tears or disinsertions are found, the segment of intestine in which vitality is threatened should be resected even if the intestine is intact Mesenteric lesions of the upper part of the intestine are more dangerous than those of the lower part

The mortality of these operations is high and increases with the length of time elapsing after the mjury

Audrey Goss Morgan, M D

Ehnmark, E Intestinal Intussusception at Cæcal Tumors Acta chirurg Scand , 1935, 76 147

In the literature are described at least 132 cases of cæcal tumor with intestinal intussusception. The author discusses particularly 34 which have been reported since 1912 and 7 from the Surgical Clinic of the University of Upsala He describes the symptoms and the clinical variations of intussusception caused by cæcal tumors, and discusses the diagnosis, especially the roentgen diagnosis

Since, of 10 cæcal cancers treated in the Upsala Clinic, 4 were certainly, and I was probably, associated with intussusception, the author believes it justifiable to assume that intussusception is fairly common in this condition.

In conclusion he emphasizes the importance of examining cases of cæcal tumor with regard to intussusception, especially by roentgen examination. He states that, if possible, the roentgen examination

should be made during an attack of pain because to other times the intumensception is easily reduced and may therefore escape diagnoss.

Wolfer J A. J juncetomy with J junal Alimentation. Ann Jung 935, ot 706.

Up to within the last few years many attempts at joinnal alimentation were made, but most of them falled because of the use of an incorrect pabulum and a lack of understanding of gastro-intestical physiology The records show that as early as 1840 ejunal alimentation was recommended and used for the treatment of carcinoms of the pylorus and attention was called to the importance of placing the stomach and duodenum at rest in the presence of ulceration. In 987 Hearing made some interesting studies of the acid curve with jejunal alimentation in the presence of ulcer. He found that when properly selected that was used there was marked decrease in the free and combined acid and in many instances the total gastric secretion was decreased In an elaborate experimental investigation carried out in 93 Scott and Ivy proved that a wellrelocted duct introduced int the relanum would maintain an animal in a proper natritional state for many months and prolong the latent period during which no acid was accreted. During period of nine hours of continuous jepunal faciling no hunger con-tractions occurred. The gratric phase of gratric se-cretion was eliminated by withholding everything by mouth. The pubulum consisted of water 3,000 cm canesugar 50 gm poptone (dried) co gm wheat flour 300 gm whole milk, ,000 c cm and crosm (20 per cent lat) ,000 cm with sufficient salt to meintain the chloride balance and such vita mins as are contained in cod-liver cal viosierol. yeast, and citrous funces. The observations made in these experiments suggested that in the human being excessive acid secretion might be reduced by ademuste belunal alimentation and the stomach placed

at rest by continuous squaal feeding.
In the procedure followed by the author. We tell symmetrously in most her hydroal orthogen as a fact at least 8 in anto the lymnal orthogen, and the pit is fixed to the shooment wall. The orthogen is drawn through sith wound on the left date of the absolute or the latter of the latter

The pathlim must be introduced slowly \(\times\) maintains the emptylag of the stomach. In the author' case to given with a specially designed electrically during nump which will deliver any quantity designed during specific time. There or four loans after the spinostomy water is aborly introduced, or can or less being given per buy. The public feeding in the part of the produced of the produced

depending upon the amount, the time after spanostomy and the response of the patient to the leafing. Too large amounts administered too rapids, will be folkers of by remme and durniver. In some landscase the fix content may be too high, cassing, bowl brutshity or the patient may not tolerate the amount of orange julce given. T determine the ideal date the tolerance of the particular patient must be satablished. With our said patience it is possible to provide a vell-balanced daily the which. Bispily from 1,000 to 3,500 calories and vitamins t prevent. Vitambooks

The indications for jejonal alimentation are, I large ulcravitions of the stomack which is no rescetable. J junal allimentation favors bealing of such ulcrations by placing the stomach at reit and abolishing said guartic accretion. The utbor over

case.

3 Carchoma of the stomach. The distressing symptoms, pain, hanger and thirst due to the carchoma, can be controlled better by jegunal abmentation than by any other means. The author distribution than by any other means. The author distribution is a superior of the controlled of the controlled

J Cardinoms of the lower end of the enophagus J juncatomy is preferable to gastrostomy in the condition because it relieves the pain lackdent to the involvement of the cardia which is present in many cases. A case is reported.

cases. A case is reported
4. Doodenal cleer with acute entertwites assected with successive recentling and marked satisfacted with successive recentling and marked satisfacted with the satisfacted recently and the satisfacted recentling the numbers of either the recentling problem. Moreover the large amounts of either satisfacted and the loss of chierden modernt the recentling often lead t alladors. In many case the doodenst tube is percented from passang through the pip form by organic obstruction due to the sixtence of the problem of problems of pipular control problems. The problems of pipular control problems of the problems of the problems of the problems of the problems of pipular forced to pipular fooding favore beating of the actor. A converse to the clear of the problems of the probl

6. Complementary jerusostosy J justá sincetation is usdirected () it control debydrátion al starvation and associated chemical charges (are pastro enteroatory follow of by persuasar southing (a case in cited) (b); provide the poorly counsale these twits instrument and force backing the associated force pastro, at the time of operation, it poses habitly that persuasts postoperative on lung illustrative case of acut pastroniers and finale and eventures as a cited of acut pastroniers and finale and eventures as a cited of acut pastroniers. Limitis plastica

S Excessive traums to the stomach

9 Permicious vomiting after gastro-enterostomy

to I stragistric or duodenal lesions isociated with marked nutritional disturbances and excessive vointing, pancreatitis, cases of long continued drainage of the gall bladder or common duct with nutritional disturbances, and the permisons vointing of pregnancy

11 Selected cases of gastrie and duodenal humor

#### Gabriel, W. B., and Lloyd-Divies, O. V. Colostomy Br f. J. Surg., 1955 22, 500

As a palliative operation in malgn int disease of the rectum colostomy is of value chiefly because it relieves obstruction and to a varying degree important and troublesome symptomy such as diar rhau, tenesmus, pain, bleeding, and discharge

In some cases, such is those with obstruction and a rectovagnal, rectovesical, or vesteocolic tistula, the rebef is marked. In most cases the operation is followed for a varying number of months by definite improvement in the seneral as well as the local condition. This is to be accounted for by the patient sublity to take a more normal diet proper bowel evacuations, relief of the rectal irritability, and more regular sleep. Colostomy is therefore a valuable operation for the relief of inoperable rectal care.

The benefits conferred by colostomy are most appreciable if the operation is done at 1 stage when the patient is still capable of general improvement and has time and courage to become adapted to 3 colostomy life. If it is not done until a late stage of the disease the operative risks are greatly increased as the patient is often in a poor state of health, undernourished dehydrated and worn out by loss of sleep from diarrhica, tenesmus, and pain. The operative mortality in advanced cases is consider ably greater than that in cases in which excision of the rectum is either planned or carried out is a second stage operation.

The causes of 79 operative deaths in 1170 cases of colostomy studied were as follows

Cause of death	Cans
Heart failure	11
Pulmonary complications	11
Pulmonary embolism	2
Peritonitis	12
Paralytic ileus	9
Mechanical obstruction	5
Toxamia from the operative obstruction	4
ribiapse of the smill intestine	o o
Uræmia	ti
Cacheria	5
Miscellaneous conditions	5

The following late complications are known to have occurred after colostomy

I Stenosis. This is the most frequent complication. It is due to the development of a contraction ring of fibrous tissue at the junction of the skin and

mucous membrane at the colostomy. The musculature of the abdominal wall plays no part in its occurrence

2 Ventral herma. This occurred in a small number of cases, not exceeding to per cent of the total number, and was slightly more frequent after left that colostomies than colostomies in which the bowel was brought out through the left rectus

3 Spur retraction. This is an important complication which results in complete dysfunction of the colostomy with the passage of faces into the distal colon and is often found in conjunction with stenosis, subcutaneous bulging, and ventral herma.

4 Prolapse This is a rare complication lake a rectal prolapse, a colostomy prolapse may be complete (entire thickness of the colon) or incomplete (mucous membrane only). Usually it occurs from the upper opening, occasionally from the lower opening, and sometimes from both

5 I istula into the colon. This is probably due to the ligation of appendices epiploical containing

diverticula

The authors describe an operative technique for colostony an important feature of which is immediate opening of the bowel. It is applicable both to cases with and cases without obstruction. It has considerably reduced the mortality and will probably prevent many of the late complications.

STRUCTE KIRN, M D

### Stone, C. S., Jr. Acute Appendicitis in Children irch Surg., 1935, 30-340

Stone reviews 258 cases of reute appendicitis in children in which the diagnosis was proved by operation. The incidence of the condition reached a peak at the twelfth year of age and remained high during the following two years. The inidings of this and similar studies indicate that there is a gridual increase in the frequency of acute appendicitis from infancy to adult life rather than a sharp increase at any one age period.

Acute appendicitis was found to be most frequent in children in the months of June, July, and August As gastro intestinal disturbances are common at that time of the year, these conditions may be of importance in the etiology of the condition

A definite history of one or more previous attacks of acute appendicitis was given in 64 of the cases

The general chincal picture of the disease was found to be similar in children to that in adults. The distribution of cases in the 3 groups—Group 1, cases of acute appendicitis not ruptured, Group 2, cases of acute ruptured appendicitis, with localized peritomitis or definite abscess formation, and Group 3, cases of ruptured acute appendicitis with no localization of the peritomitis—was essentially the same in the 2 periods of life. The mortality in Groups 1 and 2 was the same in cases of children and adults, but in Group 3 the mortality in the cases of children was 34 per cent whereas the mortality in the cases of adults was 16 per cent. This high figure in cases of Group 3 in children accounts largely for the differ-

ence in the total mortality 7 75 per cent is children

and 20 per crait in adults.

The high mortality in children is due to the lower resistance of the young to peritoneal involvement. It is obvious that reduction of the mortality can be accomplished best by early diagnoses and removal of the months before involvement of the next.

tonesso.

SWEET KARY M.D.

Drison, E. M., and Zoilinger, R.; Acute Tubercu lous Appendicitis. Ans. Surg 1933 0 740

Of 5,140 appendices examined at the Peter Read Brigham Hospital, Boston, in the past twenty years, tuberrulous appendicitis was found in 16 (0 1 per ccat). Of the patients with tuberculous appendi titis, o were temales and 13 were between the ages of fifteen and thirty years. In 12, the condition was of the olcerative type. Perferation of tuberculous ulter may be the cause of an appendiced absent In a of the cases reviewed the tuberculous as of the hyperplantic type. This type of lesion is most reachly diagnosed at operation, often by macroscopic examination, and offers the best possibility for preoperative disgracia. The tumor is fragmently memorial be abdominally. In some cases it may be missaic at operation for malignancy. The consensus of option is against primary intertion of the appendix by way of the blood stream. As the cacum is often involved, the appendix is generally believed to become lafected by direct extension and by injected contents.

The alterative or common type of tubercubers appendicht sensity above to definite ympriomatic pattern or distinguishing features to differentiate it most has ardinary sonts or recurrent appendichts. In 9 of the 1st provident cases of the ulcerative type the diagnosis of tehercubes appendicht, as to considered before operation. The cases to which a correct pre-operative diagnosis was made it is portical to some detail. In the quase of superplantic intervendual of the appendict the condition was not diagnosed pre-operatively and no other tubercubes force in 1 of the 4 cases the provident ledon found at operation was the first evidence of tubercubes the condition was not diagnosed pre-operatively and no other tubercubes.

I summarising the authors emphasize that the pre-operative diagnosis of tubercalous of the p-pender seems to depend on the pre-acts of at least 1 of the following lattors (1) longer duration of the symptoms than in the a erage case of sente population without a furnishing course, (1) poor notifition and less of weight, (3) known tuberculosis, (4) darches, (3) failures of the temperature to rus above 1 or 3 depress F (6) absence of womining, and (7) the pre-acts of a tumer by the mile lower quadration of all the populations of several of them about a transport of a tumer by the mile lower quadration of all all all populations are quadratic of the sea, but the pre-emission of several of them about lawarest tuberculosis associations:

Drainage was employed in fix of the sexteen cases Sinuses developed in the of the five cases to such orimary drainage was employed and in one case) which drainings was not established at operation. The prognosis was poor in both types of the condition, but perfectly a proposition of the product of the specific state of the ulcerative stip. Of the electron patients with the ulcerative stip, only one creasured well. The following the contraction of the cases operated span patients of solitonical first cases operated span patients of the state of the contraction of the contraction of the cases operated as as to short to allow accurate conclusions regarding the end-results.

Lakey F II., and Cattell, R. B.: Two-Stage Abdestinoperiosal Resection of the Ractum and Ractualguoid for Carcinoma. Am J Surg. 915 87 Sci.

Labay and Cattell he c devised a two-stay six descripperficed resection of the rettime with his the advantages of the one stage abdominoperiocal reaction described by Milles and therefore may be a wider application has the latter expectably in the cases of patients who are poor miss. The technique is as follows:

MARY STACE

A left rectus includes aphyting the fibers of the rectus long/textinesity at the junction of the stikide and outer thirth of the nuncles is made. The deep rejgustric crucia are ligated and divided in the lower angle of the includes. The professeam is opened and thorough addominal temperature in curred out.

The regundant sigmoidel loop is then draw toward the median line and the parietal peritoneurs direct approximately a cm from the edge of the bowel from a point high on the sigmoid down to a point directly over the flux venets heat, a point on the signed is selected for later division carried out is such as to leave an adequate amount of board premault to form the permanent colostomy and sufficient bosel distal to the point to permit its delivery and over the median line after the drysson The this penioneum over the mescatery of the sirmoid b then divided on its medial aspect down to the protion of the superior hemorrhoidal essels, and the same de isloo is carried out on the lateral surface When the mesentery loop is held up the cases stand out clearly and can be secured the small policies of moenters It is ery accessary to idential, the suprior hamorrholds! exsels by palpation. These essels are felt over the sacral promontory shelsily ! the left of the median has Particular attention is paid to the course of the upper branches of the ich colle artery which provide the directation to the processal acethent

A story stab because is not made superplacedly in the sandina. The persistence in opened it is pair in above the bladder. Through this funder injudicated on long covered change in structured as policy to the board sharilly at a posts selected to the board sharilly at a posts selected to desirate a second straight change is practiced as proutinal segment through the original series of the protection of the selection of the selec

The wound is walled off with gauze pads and the lumbar gutter is closed by interrupted or continuous sutures approximating the parietal peritoneum in a direction vertical to the bowel segment The free edge of the omentum is drawn down and anchored to the medial mesocolic peritoneum at a point directly above the superior hamorrhoidal vessels The right side of the free edge of the omentum is approximated along the cut edge of the distal loop up to the pentoneum and is attached to the pentoneum under the stab wound In a similar fashion the left side of the free edge of the omentum is attached to the mesentery of the proximal loop up to a point where it will be withdrawn from the abdominal wound Next, the primary incision is closed in layers without drainage. The permanent colostomy is brought out near the middle of the incision No sutures anchor the bowel wall to the abdominal wound It is quite essential for an inch or more of the bowel forming the permanent colostomy to project beyond the skin surface

The clamp is removed from the permanent colostomy after forty-eight hours After five days the lower clamp becomes detached or is removed and the distal segment of bowel is irrigated two or three times daily until the second stage of the operation is performed.

The average length of time between the stages is

fifteen days. SECOND STAGE

The permanent colostomy is walled off with adhe-The implanted loop is then closed by interrupted and continuous sutures and the abdomen opened just above the umbilicus in the midline, well above the implanted loop The skin incision is continued downward to encircle the implanted loop A piece of rubber tissue is tied around the implanted loop to prevent contamination After the omentum is freed from the distal segment the pelvis is exposed adequately The superior hæmorrhoidal vessels are ligated at the pelvic brim. The ureters are exposed and identified. The hollow of the sacrum is cleaned out by blunt dissection down to the tip of the coccyt The entire distal segment of bowel is placed in the pelvis in the presacral space. The pelvic pertitoneum is then closed off. The abdominal incision is closed without drainage by means of retention su tures A small suprapubic drain may be inserted down to the anterior peritoneum The perineal part of the operation is carried out with the patient in a modified Sims position The anus is sutured shut and excised toward the coccyx Following division of the subcutaneous tissues, the coccyx is removed and the middle sacral artery secured The distal bowel segment is delivered with the perineal dissection carried far laterally so as to sever the levator am muscles. The large pelvic cavity is then inspected for bleeding and drainage is established by one cigarette drain through the middle of the closed incision A blood transfusion of 500 c.cm is given routinely by the citrate method

JOHN W NUZUM, M D

Rankin, F W Graded Perineo-Abdominal Resection of the Rectum and Rectosismold Surg , 1935, 27 214

Graded operations for cancer of the rectum are usually done for the following reasons (r) inability of the patient to stand a formidable radical resection in one stage, (2) inadequate decompression as shown by ædema and thickening of the bowel wall with infiltration in the mesentery, and (3) borderline operahility

Graded maneuvers are usually carried out in the following two stages (1) exploration and decompression by decostomy or the formation of a permanent single barreled colostomy, and (2) removal of the segment of bowel containing the growth together

with the gland-bearing tissues

Most satisfactory for exploration is a low midline incision Muscle splitting incisions have the disadvantage of favoring prolapse and hermation of the colon When colostomy is done at the initial maneuyer in the author's cases it is accomplished through a small stab wound in the left groin Rankin is convinced that the low midline incision is more desirable for both exploration and the first stage of the graded maneuver He explores the liver first, then the pancreas and retro-aortic glands, and finally the primary growth The presence of metastases in the glands can often be determined with certainty only by microscopic examination One of the most important factors to be considered in estimating operability is the fixation of immobility of the growth Any growth not rigidly immobile should be extirpated if liver metastases are absent If the growth appears to be removable and a graded operation seems desirable, either a cæcostomy or a single barreled colostomy may be done If the bowel is ædematous and thickened, the mesentery is infiltrated, and there is evidence of obstruction, decompression with a No 28 Pezzer catheter is the procedure of choice. The catheter should be large enough to relieve the bowel of gas and fluid contents Later, irrigations may be carried out through the same catheter Adequate decompression depends chiefly on evacuation of the gas and fluid contents. In the cases of patients with acute obstruction at the time of examination the establishment of a blind cæcostomy is the ideal procedure. In the technique of colostomy used by the author the sigmoid is pulled well out through the low midline incision and at a convenient spot in the mesentery the blood vessels are divided close to the bowel The looping arches of the vascular supply to the sigmoid are carefully preserved. The bowel is divided between two Payr clamps, the upper one of which has been thrust through a stab wound in the groin The second clamp is applied in the opposite direction and the bowel cut across with a cautery The proximal end is drawn out and the clamp left on to obstruct the bowel completely for from twentyfour to forty eight hours The distal loop is inverted and dropped back into the pelvis

After the establishment of the cæcostomy or singlebarreled colostomy a period of from two to six weeks

is desirable before the second stage of the operation for rehabilitation of the patient. In the author's cases rectal firsigations are given from about the tenth day until twenty-four hours before the second stage. The resection constituting the second stage of the operation is a pennso-abdominal type of procedure begun with the patient face down on the table as for a posterior type of resection with the hips elevaled and the nur closed with purseatring enture. The anus being encircled by two incidens which join and extend up to about the raiddle of the correr, an extensive dissection of the pelvis up to the pentoneal reflection is accomplished. It is important to clear out the hollow of the sacrum and the lachforectal force and remove a large portion of the levator and muscle. This permits also removal of the glandbearing themes around the prostate and seminal westcles in the male and the posterior variant and and cervix in the female. The desection follows diserticulation of the coccyx from the sacrum The lateral dissection on each aide as carned completely up to the peritoneum without opening of the latter. At this point the rectum is encased in rubber glove. the glove is tied tightly around the coff and poshed back into the bollow of the marum, and the posterior s ound is closed. This stage of the operation is car. ned out under transacral block angelbook. On its completion the patient is placed on his back and the second part of the operation is carried out through a low midmo incluou under athrices anesthosis. The low midding incision under ethylene anesthesis operation is done entirely a thin the polyis, which is cacked off with some After the turned in loop of bowel has been located the peritoneum over the inferror mesenteric vessels is include and both preters are identified. The inferior meantanc vessels are doubly ligated close to their origin. The bladder is separated a y from the rectum and the entire seg meat of box of hitted out through the abdomen. The pelvic floor is restored with the remaining peritonoum. The abdominal wound is then closed and drainage of the priva is established by opening the posterior wound and inserting quantity of games encused in oxiod silk

About to per cent of all patients are operable in the sense that there is good chances for classed cure. The ver ge sociality of the operation per formed by an experienced surgeon as about per cent. The operation has been performed by the thor is eightly muse cases a th eight deaths.

JORY W YOUNG, M D

LIVER, GALL BLADDER, PARCREAS,

Debuch, L. A Contribution on the Treatment of Cirrhosts of the Liver by the Talma Operation (Lio Belling are Behanding der Leberdrines sei der Talmaches Operation) Mrs. & Greege's & Med. s. Chir. 1914, 43 556.

The author made chinkal study of mamber of crace of cirrhoads is the five in which the Telms operation had been performed (transplanten of the concentral into an extrapentoneal pocket to the concentral into an extrapentoneal pocket to the rectus about with farition to the muche and posterior fascial layer). On the basis of the clinical course these cases could be divided into three groups.

the class of the first proper into their groups, and the second of the first proper into the second of the second

In the second group ere four cases hich were uninfluenced by the operation. These ere cases of strunged circlosis. The development of anxionous was too lat. In such cases it is advantable to test the function of the lavet to determine the condition of the character organ.

In the third group a era case in which the results of the caralterantic in those in hich death occurred within from circus to sixteen days after the open tion the chief ymptoms were due to chreatery mendicioner. Because of the severe super, cused by the carhosis of the laver intrapertioneal open tions are poorly tolerated.

The Talma operation is possified by its favorable results and the theory that the chief symptom which in many cases is responsible for the entirer asks octions may be allerated by creating new ast beneficial assistanced relations. Of most input a taken in establishing the indicated for most induced to take the contraction of the tale of the contraction of

(Z mm) Leo M Zermennas, M D

Dahle, M. Rupture of the Normal Spicen Without Rasown Cause. Spontaneous Rupture! (Expter von normaler Mais often behannts Ursache, Spontaruptur!) Asis cleaving Sound 934, 73 519

R pture of the splens may occur ben the organ is the site of pathological changes, as in sollins, typhoid fewer and blood dissues: The possibility of spontaneous rupture has been disputed. The thor reports case of apparently appearances rep-

ture. The patient was boy thirteen ) can of age. He was admitted t the hospital because of pals in the left side, but the subsequent course of the condition as most suggestive of acute possibilities operation performed twenty t hours after the onset of the pain the abdomen was found filled into

			:

an infiltration of small cells-mostly lymphocytesmixed with plasma cells and occasionally large mononucleated or polynucleated cells hick starts around the portal wein and extends into the lobules of the liver where it may appear in the form of small becomes. At the same time there is a problemation of connective tierus elements which form cicatrices around the vessels and the bale ducts. The degree of fibrouls depends on the severity of the infection It may yary from only shight excess of connective tlame to true reticuloris with changes in the normal architecture of the lobule and damage to the fiver colls with secondary degenerative changes. The more severs the right abdominal syndrome the more severe the damage to the li er which results from the advent of toxic or bacterial products through the portal vela. Course T Limor M D

Schildt, E. An Unossal Form of Retroperitantel Hernia—Hernia Mesenterico-Parietalis Destra, Bronnicke (Ueber eine unerwechnische Form on Hersis retropentocesia-Hernia messaterno p netale dentra, Brosneke) Acts charact Scand 935, 76 35

The most common of the so-called internal bernian are those with an opening showing a topographical relationship to the duodenoicianal flavore and ex tending beneath the mesocolor descriders or sacendens. Of the left-sided and more common form, about 130 cases, and of the right-sided and less common form, about 40 cases, have been recorded

The author reports case of hernia on the right side of a man aged twenty-nine years who had no premote ay mixtoms before the occurrence of an acut track of abdominal pain and vomiting. The clinical picture was that of acute diffuse peritoratis. At operation, the small intestine was found twisted around its mountery in the harmal sac \ thdrawal and detorsion of the intestine and closure of the

hernial opening were followed by recovery ther's coinion this condition is best In the designated by the term purposted by Broesicks,

"hernia mesenterico-paraetalis dentra The pathogenesis of this form of berms is of interest. Although decisive proofs may perhans be lacking, there are many factors favoring the theory that such bernie are consenital malformations

The size of the herain varies considerably The contents comest exclusively of small intestine. In the majority of cases all, or practically all, of the small latestine is found in the use. The hernig are round or oval They are generally situated in the right side of the abdomen, but may be symmetrically developed in the abdominal cavity. Their relation to the carcum and accending color varies. It is common to find these parts of the intestine displaced upward and to the left

The bernul opening varies in width and is open to the left. There are no or only shight adhesions in the hernia. In some cases, as the result of malformation of the duodenum or the upper part of the jejunum, only an efferent intestinal coll is found

This hernis is 6 times more common in males than in females. Clinical symptoms occur in at least pe per cost of the cases. In some cases acute attacks of lens occur without warning. In others, there is a history of prolonged all health ith mild attacks simulating stems and general dyspeptic disturbances colmisating in acute ilous. In third group there are chronic disturbances of more vague natura.

In 8 cases reviewed by the thor the cases of the scute flous was not stated in the records. In other cases there was olvulus of the intestine in the bernial sac, strangulation in or near the bernial core ing, or prolapse of intestitual coals through the heralal opening or the bernial sac.

The diagnosis usually made is "riens of unknown cause. In the clinical examination the diagnosticlass may be led anisht by fashing the mass formed by the horsis. Roestgen examination may lead to an eract carril diagnosis.

In the majority of cases the treatment commute in thdrawal of the intestine from the berme and closure of the bernfal opening.

nationts operated upon, a recovered

Candolin, Y 1 Cryptogenetic Peritomitis Caused by Passumococci and Raisted Bacteria (Urber da durch Preumokol ken und theen ernandte Rakter ion vernitachie kryptogenetische Pentechin). Acts chirarg. Sand 934, 76 Sopp 34.

This report is based on albety seven cases of cryptograetic pentoestis treated in bountals in Finland in which pretimococci or number becteria ere found in the exudate

Although pneumococcal peritonitus is in general comparate ely rare, t is considerably more common in children than in adults. Of the cases reviewed by the uthor 75 per cost ere those of children and only 5 per cent those of adults. The morbadity was greatest t the ge of six years. The higher re-cidence of peritoriitis in children is due almost entirely to the great susceptibility of girls up to the ps of ten years Of the cases reviewed, \$4 per cent were those of girls ten years of age or younger. The condition as more frequent in females than is makes also between the ages of eleven and therty years, but after the age of thirty years its incidence was about the same in the t sexes (7 per cent) N wanation with age such as that occurring is females was observed in the males. In the latter the

incidence of the condition was 14 per cent
In 44 per cent of the cases the disease occurred in the spring, generally in April During the other seasons of the year its frequency as about constant

A respiratory tract affection had been present in t enty four cases, an abdominal affection in twent) eight and discuss with general symptoms in fa-Portusus preceded the peritoritie fairly often In some cases a chronic disease such as tuberculous pentomitis, heart cheeses, or gastine alerr was found Immediat prodromal symptoms occurred in only a isw cases. As rule the peritoratis developed sed

deniv

In the majority of the cases the general health was poor, the axillary temperature in the beginning somewhat above 38 degrees C on the average, the rectal temperature over 39 degrees C, and the pulse from 120 to 130 per minute. In 70 per cent of the cases the difference between the rectal and axillary temperature was more than 05 degree. Chills were frequent. The complexion was generally pale, but sometimes highly ilushed. Occasionally, herpes labials occurred. In half of the number of determinations the leucocytes were found only slightly increased or normal. The highest count was 23,000

Cultures of the blood were positive for pneumococci once and negative four times. Bacteria resembling pneumococci were sometimes found in the vagina, but no true vulvitis was observed. Albuminuma occurred occasionally, but usually was

slight

The earliest and most constant symptom was sharp abdominal pain. This was absent in only one case. Vomiting occurred in practically all of the cases. In some cases spontaneous diarrhoa was absent and in others it did not occur until after from two to fifteen days. Its duration then usually varied from five to ten days. It was absent in 30 per cent of the cases.

Abdominal distention and tenderness were usually fairly pronounced. In 42 per cent of the cases abdominal distention was quite marked. In 30 per cent the abdominal symptoms were more severe on the right side than on the left side. Meteoristic distention of the abdomen was usually present from

the onset

Complications elsewhere in the body developed fairly often during the course of the disease. Pul monary complications occurred in at least 33 per cent of the cases. Pneumonia occurred in sixteen cases, pleurisy in three, and bronchitis in seven. In one case pneumonia developed before, and in twelve cases after, the peritonitis. In three cases the time of its development was uncertain. There were four or five cases of nephritis and two or three of pyelitis. A septic type of disease occurred in several cases, in one case it began with arthritis.

In eighty-six cases the diagnosis was based on the findings at operation, in nine, on the findings at autopsy, and in two, on the findings of puncture Abdominal puncture was done four times for abscess

and four times for diffuse peritoritis

In eighty cases the peritonitis was diffuse, the intestines were diffusely injected and generally covered by fibrinous membranes. The exudate consisted chiefly of fibrin. Cases with little or no exudate were exceptional. The exudate varied in its consistency. It was more often thin than thick, and sometimes it was obviously mucous. It was greenish yellow with sometimes a brownish-gray tint. Malodorous pus was never found. The quantity and consistency of the exudate did not seem to depend upon the time of operation.

In fifteen cases an encysted abscess was found In the majority it was in the umbilical region, but in

some cases it occurred in another part of the abdominal cavity. With two exceptions, diffuse exudate was found only during the first ten days Encapsulation occurred after the sixth day

In favorable cases the fever decreased after the operation. In fatal cases a considerable pre-agonal increase in the temperature (up to 42 1 degrees C,

rectal) was common

Spontaneous perforation through the umbilicus occurred in three cases Secondary abscesses were formed in the abdominal cavity in ten cases. These abscesses were incised. An intestinal fistula developed in five cases. In seven cases a Witzel enterostomy was done because of intestinal paralysis. In one case delimitation of the exudate was still incomplete on the twenty-seventh day of the illness.

The mortality in the total number of cases was 58 per cent, in the cases of children, 55 per cent, and in the cases of adults, 67 per cent. In the diffuse stage the total mortality was 55 per cent. In the cases in which operation was performed during the diffuse stage the total mortality was 62 per cent, the mortality in the cases of children, 60 per cent, and the mortality in the cases of adults, 68 per cent. In the cases in which operation was performed after the diffuse stage or not at all the total mortality was 46 per cent, the mortality in the cases of children, 43 per cent, and the mortality in the cases of adults 60 per cent. The mortality was highest from the fifth to the tenth day of the disease

The following signs indicate an unfavorable prognosis a temperature above 40 degrees C, a difference of more than 1 degree between the rectal and aullary temperature, a pulse rate above 130 per minute, albuminuma (thirteen deaths in fifteen cases), absence of diarrhoea, the development of intestinal paralysis, and the presence of a large number of bacteria in the exudate. In the cases reviewed, secondary unilateral pneumonia did not seem to impair the prognosis to any considerable extent.

Forty one patients were discharged as convalescents Of these, three died later (two evidently from sequelæ of the pentomitis), two had various disturbances, and twenty-two recovered completely Fourteen patients could not be traced. According to the findings of the final follow-up, 63 per cent of the patients died, 34 per cent were in good health, and 3 per cent were in poor health

The author draws the following conclusions

r Cryptogenetic pneumococcal peritonitis is most common in girls up to the age of ten years

2 It is always, or nearly always, diffuse in the beginning Encapsulation usually occurs from the seventh to the tenth day, but sometimes not until considerably later. One or several abscesses of varying size then develop, most frequently in the umbilical region. Spontaneous healing may occur

3 To judge the results of early operation it is necessary to compare the mortality in cases operated upon during the diffuse stage with the mortality in cases not operated upon or operated upon later Erroneous conclusions are drawn if only cases in

hich the condition was diffuse or encapsulated the time of operation are compared

4. Although the difference between the results of early operation and conservatily treatment was found t be considerably less than had been expect, it is sufficient t justify repectant treatment when the disposes appears reliable. This conclusion seems after t least so far as children are concerned. In the cases of adults the more cautient and the control of th

5. A diagnosis based on the clinical symptoms is often possible but seldom entirely reliable. It is often impossible to exclude streptococcal perftoolis clinically I is hazardous to dra conclusion from the hecteris in the vaginal accretion I doubtful cases, abdominal paracentesis may be done 6. The vast majority of the patients he recover from posmooceral peritodism remain completely free from symptoms, but convalencemes may require many mention.

y N. definits conclusions can be dra as it the rout by which the infection occurs. Its occurrence by y of the blood stream or intestines scens most probable. Preumonia, poperatly seldom pia) part in the pathoguesia of the condition as it unusually develope later than the peritocular. The pentineaum of young girls seems to be expecially liable t posomoroccus safection.

LOTE STREET M.D.

#### GYNECOLOGY

#### TITERUS

Morgan, T N Studies on the Movements of the Uterus II The Action of Extract of the Corpus Luteum on the Uterus of the Unanæsthetized Rabbit III The Action of Gonadotropic Extracts on the Movements of the Uterus of the Unanæsthetized Rabbit J Obst & Gynac Bril Emb., 1935, 42 79, 84

In the experiments reported by Morgan the effect of corpus luteum extract on the movements of the uterus of the unanæsthetized rabbit was correlated with the change in the structure of the uterus. The observations were carried out by making a uterine fistula of one horn of the uterus and treating the rabbit with the extract after its recovery from the

operation

In the first series of experiments sexually imma ture rabbits were used. After treatment with estrin until the endometrium showed typical estrous development, rather large doses of "prolution," a corpus luteum extract, were administered daily after forty eight hours, the activity of the uterus showed a marked diminution, and at the end of three days the uterus was as quiescent as in pseudopregnancy and the endometrium exhibited the characteristics of pseudo-pregnancy. The uterus showed also an increase in size during the treatment with corpus luteum extract. When the injections were stopped the uterus began to show signs of activity after about three days.

The same observations were then made on sexually mature does, first on those in which the ovaries were removed and then on those with intact ovaries. In the former group the response was the same as in the sexually immature group, but in the latter it was

quite variable

From these observations the author concludes that the follicular hormone and the hormone from the corpus luteum exercise respectively augmentor and inhibitor effects on the motility of the uterine muscle, and that the degree of motility depends on the relative concentration of these hormones in the blood

HENRY S ACKEN, JR M D

Davis, M. E., Adair F. L., Rogers, G., Kharasch, M. S., and Legault, R. R. A. New Active Principle in Ergot and Its Effects on Uterine Motility Am J. Obst. & Gynce., 1935, 29 155

Experimental evidence is presented to show that not all of the desirable physiological activity of ergot is due to its alkaloids. From the non alkaloidal fraction, which has been found to have a marked oxytocic activity on the human postpartum uterus, there has been isolated a new principle which is active in doses of 3 mgm, when administered orally. This new principle does not give the usual precipi-

tation reactions with reagents used in the tests for the known alkaloids in ergot. Apparently it contains less than r in 100,000 parts of the so-called alkaloids, the smallest relative amount that can be determined by chemical analysis. When the active alkaloids in ergot—ergotamine, ergotoxin, and sensibamine—were given to patients orally in 3-mgm doses, no uterine responses followed within an hour, whereas when the new active principle was administered orally a good characteristic response was noted.

In the cases of over 100 postpartum patients the new active principle was administered and kymographic tracings of uterine activity were made for a period of three or four hours. It was found that the drug evokes a characteristic response within from six to fifteen minutes after its administration. The uterine motility thus initiated persists for three or

four hours

The physiological activity of the new active principle was studied by the usual biological methods. The best medium for biological assay of the new active principle is the human postpartum uterus and the postpartum uterus of the dog

The new principle is palatable, odorless, faintly yellow, and stable. It does not affect the blood pressure or provoke any undesirable reactions.

EDWARD L CORNELL, M D

Chambers, H The Histological Classification of Cancers of the Uterine Cervix and the Relation Between the Growth Structure and the Results of Radium Treatment. Am J Cancer, 1935, 23

Histological grading as a means of determining the prognosis and estimating the radiosensitivity of malignant tumors is still of uncertain value despite the work of Broders, Martzloff, Healey, Cutler, and others Apart from the need for a large series of cases treated by a uniform method and followed for a sufficiently long period of time, the procedure is complicated by the difficulties encountered in attempting to separate cancer growths into distinct and clearly defined groups and by the fact that no method of grading has as yet been generally regarded as entirely satisfactory

The author's study was undertaken to determine the extent to which the response of malignant tumors to irradiation varies with their histological structure and whether there is evidence to support the theory that tumors of certain histological types (e.g., adenocarcinomata) are insensitive to irradiation Of 678 cases of epidermoid cancer of the cervix treated at the Marie Curie Chinc, 228 were discarded as unsuitable. The grading of the remaining 450 cases was based on the extent of differentiation and the degree of cell activity, but the general structure

of the growth was also considered. The author grades equamous-cell cancers as follows:

Grade 1 All typical squamous cardinomata of the adult common type. (Incidence, 15 per cent.)

Grade a Tumors composed of thin spindle cells resembling those of the basal germinating layer (Incidence, o per cent.)

Grado 3 All tumors in which there is a distinct tendency to form stratified spatietium. (Incidence, 54 per cent.) Those tumors are subdivided into keralinheed differentiated, transitional, and ana

phastic growths

Grade 4 Anaplastic growths which show to formation of stratified epithelium. (Incidence, per cent) These tensors are subdivided into (a) those arranged in alreadar masses with a fair amount of intervening tissue, and (b) those composed of solid mass of cells with hitle intervening tensor which is some respects resemble surroms.

The age incidence of the tumors of the various histological grades is about the same except that there is some indication that the anaplastic growths (tumors of Grade 4) are more common in younger

then in older women

The duration of a protons seems to have no rich tion to the chical stage of the disease (Leapse of Nations Chesdication). In many of the most advanced cases among those ordered the ymptoms had been present for less than to months and in some of the less advanced cases they were if the keopest duration.

The clinical varieties of local growth, namely nodular infiltrating, ulcarating, crater forming, fungating catalilover endocervical, and prometric, were studied. The cataliferer growths were chiefly

of Grades 3 and 4 b, but every fustological type was

represented in each official variety The irradiation treatment used t the Mane Carse Clinic is a modification of Formall' method In general, the principles of therapy have not been modified more the Chale was opened in 9 5 Rade in has not been used interatitually and supplementary deep \, ray therapy has not been employed The chief object of the treatment has been the direct polication of a doss of irradiation large enough t came the malignant cells t duappear without producing irreparable damage t normal structures It is, m fact, surface treatment t the utente cavity and the agnal vanit Is to a has the dosage been influenced or altered by the histological character of the growth. Although this method succeeds in treating carcinoms cells close to the surface, it fails to destroy or senously after the gro the of cancer calls attracted more deeply or metastases in the pelvic glands. Therefore the resplits are dependent pon the choscal stage of the discuss when the treatment is begun and disappear ance of the local growth is of more value in deter mining the effect on the cancer missie than is the patient a ultimate condition

The author reviews the results of treatment not only in the 450 cases of squamous cell cancer which

were graded, but also in 50 cases of adenocarcinoms of the cores. Of 50 pertients in clusical Stages 5 and

(Les que of various chanifection) for (by per not) for a v born apparently free of local decades for (c) yets or longer more the insert two of the treatment of those in channel stages a said, 4, 11 (5) per cent are locally cared. There is comparable plusted individual cared that were the best results were obtained in case of interface of the care was 3 per care.

The subject before a that the treatment used at the Marie Carlo Clade will core the great major of growth hunted to the cerum (Supe.) impactive of their histological type. When the spore advanced cases—for example those of Supe.—The consideral expansively a difference of not spore than a per cent as found bet ear the states histological type so for as local curve or the native state of the states histological type so for as local curve or the native state and as when the results a the entire series or considered. Moreover, it is quite evident that these currencements are not because true to irreduction.

GEORG 11 GARBARA II D

#### EXTERNAL GENTALIA

Khwin, T J and Loweley O S. Radical Relief of Vesico aginal Fixtula. Report of an Ususual Case of A sucken of the Bladder Through the Fistulous Opening, and Review of Sixty Cases Seen. Chew York Hospital Doring the Past Mastry Vasor. J Uni 255, 13

The patient whose case is reported as a ones who was thirty-fit years of age when she first came under the authors' observation. She in a history of "bladder trouble" daring from her only controment thirteen years previously She had been oper ated upon five times a thout relief of the symptoms The furula as complicated by complete eversion of the bladder into the vagina The everted bladder protraded t the valva. The operation described by the uthors was done in two tages. All devital land timue was removed, the bladder below factored almost t the edge of the fistule Salver are sutares similar to those used by Sims righty team ago or th section used Suprapulse counter drainage was established t favor healing of the freshed edges of the fixtule by presenting their contemination by contact with the urine. The final result as not complete cure, but the patient as benefited.

The thors consider encovagual fatula a under scal problem

#### MUNCHELLANGOUS

Rasso, E. I. estigations on Choline in the Mentruel Cycle and the Puerperal Rast (Recerbs with coins self-circle neutron self-state dyner prakts). So sed of pose, 56, 7 4 f.

A number of in estigators has attributed to boline an antagonistic action toward the effect of

adrenalm on the blood pressure, a specific action on the coagulation of the blood, a hormone action stimulating intestinal peristalsis, a hormone action influencing menstruation, and a stimulating action on the uterine muscle initiating uterine contractions during parturation

The author describes an original method for the demonstration of free choline in the circulation. In studies made in the cases of twenty-six women he was unable to demonstrate any importance of this substance in either menstruation or parturition.

George C. Finola. M.D.

## Cannon, D J Menstruation and Menstrual Disorders J Obst & Gynac Brit Emp, 1935, 42 88

It is regarded as proved that functional uterine bleeding is due to a disturbance of the endocrine balance which maintains the normal menstrual cycle. The author discusses the physiology of menstruation, Frankl's view of the mechanism of bleeding, the relation between estrus and the menstrual cycle, the physiology of intermenstrual bleeding, the relation between intermenstrual bleeding and the æstrous cycle in lower animals, metropathia hæmorrhagica, epimenorrhoa, and menorrhagia simplex. He states that the gynecologist is no longer regarded merely as an operating surgeon With his wider vision, he no longer wastes time on such sterile discussions as the best means of suspending a displaced uterus He is more interested in the nature and cause of the bleedings which suspension of the uterus has so frequently failed to cure

J THORNWELL WITHERSPOON, M D

#### Moore, C R Hormones in Relation to Reproduction Am J Obst & Gynec, 1935, 29

The author discusses (1) the two functional potentialities of the sex glands, (2) the control of the essential accessory reproductive glands, the non-essential characteristics, and, to some extent, the psychic behavior by the homologous sex hormone and the absence of an effect by the heterologous sex hormone, (3) the threshold of effectiveness of hormones, (4) the lack of an effect of gonad hormones on the gonads themselves, (5) the absence in the gonads of the power of self regulation, (6) the modification of hypophyseal activity by the gonad hormones, and (7) the influence of environmental agents on the hormonal activity of the organism

He states that the two functional potentialities of the sex glands are (1) the maturing of germ cells, and (2) the production of internal secretion or hormones. In the simpler invertebrate forms of life the gonads appear to have only the germ cell-producing function. In the lowest of the vertebrate types as compared with the higher types there is little hormone action. Characteristic of all reproductive processes is periodicity. Reproduction is not a continuously operating process, it usually occurs once a year.

Control of the accessory reproductive organs has been demonstrated to rest upon the internal secre-

tions of the specific or homologous sex gland. In the lower vertebrates, including the mammals, the hormones probably play an important part in stimulating the mating reaction or sex drive, but in primates, especially in man, their function to that end is to be questioned. In keeping with such added complexities of control, more than one hormone has been elaborated. Though these gonad hormones are quite sex specific, they are in no sense species specific.

With regard to the threshold of effectiveness of hormones the author says that it is too rarely appreciated that hormone storage does not occur in the body and that the response of an organ depends upon a minimal hormone level for a period sufficient for the occurrence of such a response

The general results of injecting gonad hormones into normal animals are injury to the gonads (from either sex hormone) and stimulation of the homologous but not the heterologous accessories

The gonads function under the remote control of the hypophysis Substances that stimulate the gonads have been derived from several sources, but it is not to be suggested that these substances from different sources are identical.

There is a reciprocal interaction between the gonads and the hypophysis. The modification may be expressed as an inhibition or a suppression of hypophyseal activity of such a nature that hypophyseal secretions are delivered into the blood stream in reduced amounts.

Certain environmental agents operate in some manner to influence the hormone activity of the organism. In annual breeding forms of animals this added environmental factor operates upon the controlling mechanism that exists in the forms that are not similarly affected by their environment. It is not yet entirely clear whether the environmental factor operates merely to stimulate the activity of the hypophysis or to remove some analyzable inhibition.

EDWARD L. CORNELL, M. D.

# Wade, N. J., and Doisy, E. A. The Prolonged Administration of Theelin and Theelol to Male and Female Rats and Its Bearing on Reproduction Endocrinology, 1935, 19.77

A review of the literature revealed that the ultimate effect of the administration of estrogenic substances on the reproductive behavior of the male and female animal was uncertain because of the relatively short periods of treatment. The authors conducted experiments over an extended period to determine whether male and female rats can develop normal reproductive hormones, theelin and theelol.

Male rats were injected daily after weaning with quantities of theelol varying from 0 65 to 32 0 y and of theelin varying from 1 65 to 6 6 y. The injection period ranged from one hundred and thirteen to two hundred and forty-two days. Of the 53 rats so treated, 24 successfully impregnated normal females, whereas of 39 control males, 17 sired litters.

The body weight of the injected males averaged 87 per cent of the body weight of the control males

of the growth was also considered. The author grades aquamous-cell cancers as follo s

Grade 1 All typical aquamous cardnomata of the dult common type. (Incidence, 5 per cent.) Grade : Tumors composed of thin spindle cells resembling those of the basal germinating layer

(Inclience, 9 per cent.) Grade 3: All tumors in which there is a desired

tendency to form stratified colthelium. (Incklence. 54 per cent.) These tumors are subdivided into Leratinized, differentiated, transational, and anaplastic growths.

Grade 4 Anaplastic growths which show no formation of stratified epithelium. (Incidence, per cent ) These tumors are subdivided into

) those arranged in alveolar masses with a fair amount of intervening there, and (b) those composed of solid mass of cells with hitle intervening tissue which in some respects resemble surcoma

The age incidence of the tumors of the various bistological grades is bout the same except that there is some indication that the anaplastic eros the (tumors of Grade 4) are more common in vonneer

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The duration of symptoms seems t have no relation to the clinical stage of the disease (League of Nations classification) In many of the most advanced cases among those reviewed the symptoms had been present for less than to months and in some of the less advanced cases they were of the longest duration

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tenne cavity and the ginal vault In no a y has the douge been influenced or altered by the histological character of the growth. Although this method succeeds in treating carcinoma cells close t the parface, it fails to destroy or secously alter the growth of cancer cells situated more deeply or metastases in the polysc glands. Therefore the resalts are dependent pon the clinical stage of the discuse hen the treatment is begun and disappear ance of the local growth is of more value in deter mining the effect on the cancer thank than is the patient s ultimate condition

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ere graded, but also in 50 cases of adenocarcinoms of the cervix. Of no patients in chincal Stages I and

(League of Vations classification), So (So per cent) been pourently free of local disease for raears or longer slore the instit two of the treatment. Of those in choical Stages ; and 4, 44 (63 per cent) are locally cured. There is comparatively lettle difference bet een the various bistological grades However the best results were obtained in cases of transmonal cancers of Grade 3, in hich the incdence of local cure as 74 per cent, and cases of denocarcinoms, in high the incidence of local cure was 73 per cent.
The ther believes that the treatment used t

the Mane Carle Clinic will cure the great majorn of growths hunted to the cervix (Stage ) prespec tiv of their bistological type. When the more dvanced cases-for example those of Stage 1are considered separately a difference of not more than 5 per cent is found between the anous histological types so far as local cure or the number of three year survivals is concerned. This is true also when the results in the entire series are considered. Moreover it is quite evident that adeno-

GEORGE II GARRAGE, M D

#### EXTERNAL GENITALIA

Kirwin, T J and Loweley O S. Radical Relief of Case of & ergion of the Bladder Through the Fatulous Opening, and Rensew of Sixty Cases Seem t New York Hospital During the Past Ninety Years. J Urel 935 33 1

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The authors consider vesicuraginal fistula a aroug HARR W FIRE M.D. ical problem

#### MISCELLANEOUS

Seaso, E. Investigations on Chokee in the Menstruck Cycle and th Peerperal Stat (Ruerche sulla colora nel ciclo mentres nelle state di peci peralità). Ese stat di grace 934, 7 3 5

A number of investigators have timbuted to choice an antagonistic action toward the effect of adrenalin on the blood pressure, a specific action on the coagulation of the blood, a hormone action stimulating intestinal penstalsis, a hormone action influencing menstruation, and a stimulating action on the uterine muscle initiating uterine contractions during parturition

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GEORGE C FINOLA, M D

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J THORNWELL WITHERSPOON, M D

#### Moore, C R Hormones in Relation to Reproduction Am J Obst & Gynes, 1935, 29 1

The author discusses (1) the two functional potentialities of the sex glands, (2) the control of the essential accessory reproductive glands, the nonessential characteristics, and, to some extent, the psychic behavior by the homologous sex hormone and the absence of an effect by the heterologous sex hormone, (3) the threshold of effectiveness of hormones, (4) the lack of an effect of gonad hormones on the gonads themselves, (5) the absence in the gonads of the power of self regulation, (6) the modification of hypophyseal activity by the gonad hormones, and (7) the influence of environmental agents on the hormonal activity of the organism

He states that the two functional potentialities of the sex glands are (1) the maturing of germ cells, and (2) the production of internal secretion or hormones. In the simpler invertebrate forms of life the gonads appear to have only the germ-cell-producing function. In the lowest of the vertebrate types as compared with the higher types there is little hormone action. Characteristic of all reproductive processes is periodicity. Reproduction is not a continuously operating process, it usually occurs once a year.

Control of the accessory reproductive organs has been demonstrated to rest upon the internal secre-

tions of the specific or homologous sex gland. In the lower vertebrates, including the mammals, the hormones probably play an important part in stimulating the mating reaction or sex drive, but in primates, especially in man, their function to that end is to be questioned. In keeping with such added complexities of control, more than one hormone has been elaborated. Though these gonad hormones are quite sex specific, they are in no sense species specific.

With regard to the threshold of effectiveness of hormones the author says that it is too rarely appreciated that hormone storage does not occur in the body and that the response of an organ depends upon a minimal hormone level for a period sufficient

for the occurrence of such a response

The general results of injecting gonad hormones into normal animals are injury to the gonads (from either sex hormone) and stimulation of the homologous but not the heterologous accessories

The gonads function under the remote control of the hypophysis Substances that stimulate the gonads have been derived from several sources, but it is not to be suggested that these substances from different sources are identical.

There is a reciprocal interaction between the gonads and the hypophysis. The modification may be expressed as an inhibition or a suppression of hypophyseal activity of such a nature that hypophyseal secretions are delivered into the blood stream in reduced amounts.

Certain environmental agents operate in some manner to influence the hormone activity of the organism. In annual breeding forms of animals this added environmental factor operates upon the controlling mechanism that exists in the forms that are not similarly affected by their environment. It is not yet entirely clear whether the environmental factor operates merely to stimulate the activity of the hypophysis or to remove some analyzable inhibition.

EDWARD L CORNELL, M D

# Wade, N. J., and Doisy, E. A. The Prolonged Administration of Theelin and Theelol to Viale and Female Rats and Its Bearing on Reproduction Endocrinology, 1935, 19.77

A review of the literature revealed that the ultimate effect of the administration of estrogenic substances on the reproductive behavior of the male and female animal was uncertain because of the relatively short periods of treatment. The authors conducted experiments over an extended period to determine whether male and female rats can develop normal reproductive hormones, theelin and theelol.

Male rats were injected daily after weaning with quantities of theelol varying from 0 65 to 32 0 y and of theelin varying from 1 65 to 6 6 y. The injection period ranged from one hundred and thirteen to two hundred and forty-two days. Of the 53 rats so treated, 24 successfully impregnated normal females, whereas of 39 control males, 17 sired litters.

The body weight of the injected males averaged 87 per cent of the body weight of the control males

The weights of the testes, prostates, and Cowper's glands of the injected rats were less than those of the controls.

Forty-one female rate were injected daily after saning with quantities of theiol varying from 65 to 3 57. The injections were continued for periods ranging from one bundred and forty-three to three hundred and sixteen days. During this time, on mating, 6 prepandes, and 4 litter occurred. Reproduction was below normal and interference with incitation was apparent. A F Laz, M D

Trains Rao, G. Malignant Melanotic Turnors of the Fernale Gentralia (Di skuns turnon melanotic del granal demonisti). Recute di gior., 934, 7 26

The thor reports three cases of malignant melanotic tumor of the femals gentialls. () melanocardboons arising from the base of a streknil polyp and extending into both hable minors () melanocardboons originating from small mass; it has fremained in the direction and extending into the right labbum minus and () is melanocarcons arising from an after in the lot or third of the little vaginal mass of the minus of the minus of the little vaginal mass of the minus o

The treatment in all of these cases was operation supplemented by X ray and radium irradiation. The first two patients died tw months and four months later respectively of other cames. The third was in good bealth four months after the operation.

A review of the literature revealed that malignant melanotic tumors of the female gentialia are most crimmon between the ages of forty and sixty years Melanocardinens of the cruitre is zer. The author was able to collect only far cases and to a them were insufficiently described. First, Antic, and Pack state that y per ont of all melanocardens and Pack state that y per ont of all melanocardens are proposed to the state of the valves. The reported frequency of not assort temporary of the valves. The reported frequency of not assort temporary of the valves. The reported frequency of the state of the valves. The reported frequency of the state of the valves range from 8 of not consistent with the valves of the valves required to the valves are particular to the difficulty of distinguishing melanosarcoms from sociassecuronoma.

Melanomata may originate in structures of the internal penitaha which are devoid of pigment or ma those of the external penitalia in which pursuant normally abounds. Their cause is obscure. The exact cell responsible for them is unknown. Among the more undely accepted theories regarding the origin of these tursors are Delaul's theory that they arise from connective-tience, the Durante-Cokahem theory hick attributes them to misslaced enbryonic timus, and Fornero's theory that they are due to the migration of pigment relia. The author agrees with Bloch that melanomata are derived from melanoblast cells. These melanoblasts are epidernal crib of the stratum basals and spinosum and their function is the production of plament back is transmitted to the corlum for elimination By means of doosulphenylalanin it is now possible to distinguish melanoblasta from chromatophoric and melanophode cells. The author believes that this distinction will throw considerable light upon the sticlogy of the tumors. Grosce C Fraces, M D

## OBSTETRICS

# PREGNANCY AND ITS COMPLICATIONS

Tata, G The Influence of the Hormones of Pregnancy on the Growth of Bacteria (Induenza degli ormoni gravidiei sullo selluppo dei fermi)

To determine the effect of the hormones of pregnanct on the growth of bacteria the author collected unne and blood from three groups of women -nor mal non pregnant controls, normal women at various stages of pregnancy, and pregnant women, with pathological conditions such as eclampsia, albuminuria, severe vomiting, and vesicular mole and added serum and unne respectively to a medium appropriate for the growth of the bacillus Paratyphosus 4. The criteria of growth were the number

As compared with the blood serum of the non pregnant women, the blood serum of the pregnant and size of the colonies nomen showed a distinct inhibitory effect on the growth of the bacteria which increased with the ad The serum of the pregnant nomen with complications caused an evuberant growth of the bacillus because of its greater content

No appreciable difference in growth was noted in the media to which the urine of these groups was added Honever, when the growth in media mocu of hormones lated with serum was compared with that in media moculated with urine, it was observed that while unne inhibited growth, the serum did not cause an

In another series of experiments commercial hor mones of pregnancy were added to the media. The equal hindrance to growth extracts consisted of prolan and astrin obtained from urine and an extract of the anterior lobe of the hypophysis When added to the media in varying unit quantities, they all caused a marked increase

The author concludes that, besides these hor in the rapidity of bacterial growth mones other factors, such as endocrine and nerve factors and an antibacterial agent, ma) have influenced the results reported

Studies on Ammonia in Eclampsia (Studien ueber das Ammoniak in der Eklampsie) Llusia J B

The ammonia content of the blood during pregnancy and in eclampsia was determined by the author by the method of Tolin The findings of Bock, who noted an increase in the ammonia content of the blood during pregnancy, were confirmed.
Llusia found that in pregnancy the blood ammonia averaged o 26 mgm per 100 c cm in pre eclampsis, o 56 mgm, and in eclampsia, o 81 mgm During an attack of eclamptic convulsions it rose to 1 36

In the puerperium it returned In eclampsia the amount of ammonia in the urine also increased while the urch mgm per 100 c.cm content of the urine was decreased. In the author's rapidly to normal opinion it is unlikely that nitrogen retention is responsible for the increase in the blood ammonia. The aponations for the increase in the blood anniholda. The increase is probably due to liver insufficiency. This is suggested by the ammonia-urea quotient in the

Determinations of the hydrogen-ion concentration and carbon dioxide tension of the blood indicated that in cclampsia there is a slight acidosis plood.

The amount of amnonia was found to be less in the umbilical blood than in the maternal blood and greater in the umbilical vein than in the umbilical The fetal liver changes the ammonia into Determinations of the urea and ammonia content showed only small amounts the placenta is of no importance in the formation of artery The attacks of convulsions, but not the other symptoms of eclampsia shoved a relationship to the increase in the ammonia in the blood (MUEHLBOCK) JOHN W BREWIN, WD

An Analysis of 127 Cases of

Eclampsia Treated by the Modified Stroganoft 1m J Obst & Gynec, 1935, 29 27 Peckham, C H

In the period from October 15, 1924, to February 15, 1933; 127 cases of typical eclampsia were observed on the Obstetrical Service of the Johns Hop-Lins Hospital, Baltimore, and routinely treated by the modified Stroganoff method There were 14 maternal deaths, a mortality of 11 02 per cent The death rate was highest in the postpartum variety and lowest in the intrapartum variety of the condition Since the use of the Stroganoff treatment the mortality has been less than half the mortality under the old radical forms of treatment In cases of the mild type according to the classification of Eden it was 2 86 per cent, and in those of the severe type,

The author presents a modified classification which he believes is a more exact criterion of the prognosis 21 05 per cent than Eden's original classification. A case is classified as severe when 2 or more of the following factors are present (1) a temperature of 103 degrees F or above, (2) a pulse rate of 120 or over, (3) a systolic blood pressure of 180 or over, (4) deep and persistent coma, and (5) 20 or more convulsions

In 102 cases of eclampsia classified as mild accord ing to this classification there were no deaths whereas in 103 which were classified as severe there were 15

deaths, a mortality of 24-27 per cent.

The maternal mortality is somewhat higher in the white than the black race. In the cases reviewed it was increased also in multiparous women and in the case of a woman late in the child-banding period of the In the mild form of case the modified Stropanofi treatment gives quite sublistatory results. In severe cases it is preferable to the old forms of radical treatment. In severe cases becoming worse under conservative therapy creamen section under local or subtal anathesia seems permissible.

EDWARD L. CORNELL, M. D.

Schumen, W.1 Heart Disease Complicating Freq mancy Am. J Oist & Gyner 935, 29 64.

Of the 5 cases | heart doesnes complicating premancy which are reviewed by the titler were seen in the period between January of an November 50, 913 when 9 5 women ere delivered on the surd service. Heart disease therefore occurred in a ferenty at cases or 5,00 every so cases of prenancy. Two (8 per cent) of the women with beart doesnes did as the result of the preparancy and the disease did as the result of the preparancy and the besterful employer of subscute besterful employer distributions.

Clerron of the numers with heart disease can a definit history of rheumatism. The same umber had a previous history of cardiac disturbances Fourteen had no previous knowledge of a carchec condition. In the cases of a the cardiac disease ass not recognized until labor or the puorperlum According to the physical ages, the double mitral lesson was the most frequent, I of the 5 samen naving mitral stenocle and insufficiency frequency were mitral stenoels and mitral insufficoncy each of which was found in s. One nations had acetic inestficiency and mitral stenous, and another, combined sortic and mitral insufficiency In 7 of the cases with a double mitral lesion and 4 of the 5 with mitral stenoods alone the cardiac disturbance was severe, whereas in a of the C with mitral insufficiency it was mild

The trustment was based on the requirements of the particular case. Is 8 of the 5 cases delivery occurred at texts in 6, the preparacy was interrupted and in the woman deed undertwend In 6 case constron section with sterilization was observed term, and in 4, before the child became viable. Abortion consisted of shedint rest in bed in the height for from three 4 first particular preparation three 4 first particular properties of cases, by dipatakation

Program women with severe cardiac conditions must be treated individually. The parity of the petient, the period of greatation at which she is first seen, her shifty t obey instructions, her religion, her dearly for children, the advisability I stembes ton, and the presence of other complexations struct all be taken fine consideration. When one was 4th

decompensated cardia lealon is seen in the satismonths of pregnatory the treatment of choice in alldominal by steastowy and sterilization after the restoration of compensation. When he is seen after the first time after the period of faishiry, beafurrest until the return of compensation followed by castering series and sterilization performed under Fitzgerald, J. E. The Management of Prognant Women with Heart Disease. Am. J. Ook. & Gymer. 035, 80, 51.

Of 0,000 prepant women, \$350 are referred to the Heart Clime, and of the latter, heart discuse was found in 500. Therefore the indedence of heart discuss in the prenatal clinic was 0.00 per creat.

Of the 176 women with heart discise, of had mirral discuss and of the latter 6 showed evidence of stenois. T only fire or colored Guly laid a positive Wassermann reaction Eleven ps. a history of previous heart faither Thirty-seen have been under observation for more than five year. Calv 6 says a kitatory of thenmatism.

Twelve of the somes had sorth disease. Of these, 8 sees twenty years of age or younger. Mee were colored. Free of the colored women had positive Wassermann reaction. Half of the group came under observations in their first pregnancy. The eather group has been in the chine for an verage trace of

ar years.

There were seven patients with combined solital and acritic lesions. All had negative Wassermans reaction. Their average time in the clisic has been six years. Six gave definite history of rhomatism or rheumatic fiver.

The most examon symptons was drysons as exertine. Of the women with finder disease, at had intermittent dryspoers. The next most frequest symptom was ordene, but this jet eather consens is late pregrancy and does not necessarily indicate myocardial strain. Nuclears of the ory some with mirrid disease, 3 of the mix nortic disease, and of the with comband indicate had the comband indicate had characteristic.

The uther calls attention to the fact that of a come with severe injury of the heart, 35 and or 30 mptons at all He states that when heart fallow a prevented during pregnator, desaire during labor of in the postpartum period is very rare. He has found that in the absence of obstatical complications normalizating other procedures derivery by vary of the vagua pecks entremptly good results.

EDWAYD L CORNELL, M D

Mahon, R. The Obstetrical Prognoss of Large Unerine Fibromata (Le presente obstitute) as gree through the property of the state of the state of the control of the contr

Makes reports that at the Obsterioid Charles the College of Mechane of Borrister, 4 Bronasts were found in ... one owners delivered in the period front pay to ... on Ninetern of the Streamster of the size of many fair or larger Tharteen of the ... of the size of many fair or larger Tharteen of the ... of the size of

nancy is interrupted very early do not come to an obstetrical clinic

In 13 of the 19 reviewed cases of large fibroma the pregnancy was entirely normal In 5, pain occurred during the course of the pregnancy, suggesting the possibility of necrosis of the tumor, but in all was relieved by medical treatment. In no case was operation performed

The 18 cases of delivery at or near term included r case of placenta prævia in which cæsarean section and hysterectomy were done, I case of breech presentation in which extraction was accomplished easily, 2 cases in which high forceps were applied, 3 cases requiring surgical intervention (not including the case of placenta pravia), and 12 cases of spontaneous delivery In 5 cases the postpartum period was complicated by an infection which yielded to medical treatment. In 1 of the latter the symptoms suggested also torsion of the fibroma on its pedicle

All of the 19 mothers were discharged from the clinic in good condition Four had been subjected to hysterectomy Seventeen of the children lived and developed normally One infant, the child of a

syphilitic mother, was stillborn.

From his study of these cases and a review of the recent literature the author concludes that pregnancy has a definite effect upon fibromata in the uterus During pregnancy, uterine fibromata tend to hypertrophy, soften, and become necrotic Very considerable necrosis may occur without causing Gangrenous or suppurative clinical symptoms degeneration of a fibroma in pregnancy is rare Pregnancy may be responsible for torsion of a While the necrosis of a pedunculated fibroma fibroma during pregnancy may not produce symptoms, it increases the chance of postpartum infection

Uterine fibromata tend to prevent pregnancy and, if conception takes place, favor the occurrence of abortion or miscarriage Their effect is due in part to the changes in the endometrium with which they

are associated.

Fibromata interfere with the course of labor in various ways Large fibromata, especially if pedunculated or arising from the posterior wall of the uterus, may cause mechanical interference and prevent engagement of the head Multiple fibromata may infiltrate the uterine wall and interfere with normal uterine contractions 

Either form may cause an abnormal presentation Recent statistics and the occurrence of 12 spontaneous deliveries in the 18 cases reviewed by the author show that interference with labor occurs less frequently than might be

Mahon is convinced that the prognosis of large uterine fibromata from the obstetrical view is not unfavorable for either the mother or the child Surgical interference is usually not indicated during pregnancy A trial of labor should be permitted at term to determine the degree of dystocia caused by the fibroma Surgical intervention will sometimes be necessary Under such conditions the author prefers low cæsarean section followed usually by hys

terectomy but sometimes by myomectomy When symptoms of puerperal infection develop in a fibromatous uterus, curettage is not indicated If surgical treatment is required, hysterectomy is the ALICE M MEYERS procedure of choice

A Case of Abortion Due to Psychic Pilloni, S Trauma (Su di un caso di aborto per trauma psichico) Clin ostet, 1934, 36 768

The author reports a lawsuit brought against a man for the induction of abortion by psychic trauma During the evening of May 1, the woman, who had been amenorrheac for two months, was frightened by the threats of the accused and thereafter experienced a bloody discharge from the vagina The discharge continued for two days, but as she believed it due to the onset of the menstrual period. it caused her little concern On the third day, however, she began to have intermittent abdominal cramps, and after a few hours a mass of coagulated tissue was expelled from the vagina. A physician was called, but examined neither the extruded mass nor the patient The woman continued to bleed for two weeks, during which time she was not under the observation of a physician On May 26 she entered the hospital and was subjected to uterine curettage.

The author reviews the developments at the trial and the legal and medical questions involved These led to the legal opinion that the abortion might well have been precipitated by the psychic trauma

A. Louis Rosi, M D

#### LABOR AND ITS COMPLICATIONS

Cæsarean Section A Review of 486 Hayes, W I Consecutive Operations at the Women's Hospital, Melbourne Med J Australia, 1934, 2 799

In the period of fourteen years from July, 1920, to June, 1934, 40,183 women were delivered in the Women's Hospital, Melbourne, Australia Of these, 486 (1 2 per cent) were delivered by cæsarean section The incidence of cæsarean section was higher than in private practice because of the greater number of abnormal cases admitted to public hospitals and the tendency of women with abnormal deliveries to return to the same hospital for subsequent deliveries In the cases reviewed, both the classical and the lower uterine segment operations were done The latter was usually performed when the patient had been in labor for some time Of the mothers. 29 (59 per cent) died Of the children, 41 were stillborn and 23 died soon after birth, the total infantile mortality being therefore 13 per cent (64

Of the maternal deaths, 2 per cent were caused by the operation and 3 9 per cent were attributed to the condition for which the operation was per-

Disproportion, obstructing tumors, certain cases of placenta prævia, and genital atresia due to a newgrowth or cicatricial tissue may be considered as absolute indications for casarean section. In the cases of woman suffering from medical conditions, lockning eclampais and renal toxends, the treat meat should be conservative as a rule and operation should be undertaken only with full kno ledge of its risks.

Of the cases reviewed, the operation was done for contracted poirty and dispreportion in a 150 will be maternal mortality of a 5 per cent (6 of the 9 a some horizont of the 150 miles of the 150

mortality and for medical condutions such as mirral tenoda in 8, and cartains failure, polinosary tuber culous, praemonia and cardiae failure, multiple mountine, and dementia percors in case cach in mounty tubertuness of cardiae failure and of per maternal deaths—of cardiae failure and of per mounty tubertunels Repeated sections for conditions other than contracted pelvas user does in 8 cases with no mortainty. These cases included a formal presentation, 3 of prolapse of the cord, of hydrocephaliae, of indexed terms, of repeated stillightin, and of a shoominal hamorrhaps. The condy death is the cases of reported customs sections.

was that of the woman operated upon because of abdominal hymorrhage, who died from further hymorrhage doe to an ineffective ligature

A postmorten crearran action was done in 5 cases. The came of the death of the nother varieties are of the death of the nother varieties as in 3 and taberculous broschopousnosis, chronic nephritis with created hemorrhaps, and roptum of the terus in case each T irrag children were dedurered—one in the case of the control with relatinguish and the other in the case of the control who filed of chronic nephritis.

There were cause of replaced uterns. In a, the terms was already ruptured when the course as dentited t the hospital. In a, the replace follo of a pervious creasives section in the carried is which the sterms was already replaced hen the commendated the hospital, hysterectory as done in the open and to the operating table and

t died later from microlon. Of the cases of repure following a previous casespran section, by stress tomy as done in 3 and re-stress of the letters extra in In these cases there was no deaths. Of the remaining a cases in which the repture occurred in the hospital, it as probably due to the middle induction of labor in Hymerectomy as done in all T of the mothers due The total mortally in the case of territor inputs and per cost. The case of territor inputs and per cost. The case of territor is the probable of the process of the process as per formed soon after the occurrance of the repture.

### GENITO-URINARY SURGERY

#### ADRENAL, KIDNEY, AND URETER

## kimbrough, J C The Surgical Treatment of Hydronephrosis J Urol, 1935, 33 97

The indications for surgical treatment in cases of by dronephrosis are as follows

I Fibrous changes and infiltrations of the ure teral wall causing thickening and contraction with

atresia of the lumen of the urcter

- 2 Pertureteral fibrosis with angulation and constriction of the ureter. Cases have been observed in which the ureteral sheath appeared to have become shortened, the ureter therefore having been forced to assume a tortuous course within it. As the external appearance of the sheath in such cases may not be abnormal, this condition is often overlooked at operation.
- 3 Anomalous vessels to the lower pole of the Lidney causing angulation at the ureteropelvic junc ture or disturbing the peristaltic wave. Quinby and others have noted that an anomalous artery located in provimity to the ureter but causing no mechanical obstruction may interfere with ureteral persistalsis and produce dilatation of the renal pelvis by its pul

4. Insertion of the ureter into the side of the pelvis to form a valve-like outlet which closes with intrapelvic pressure.

- 5 An anomalous position of the kidney causing angulation and obstruction of the upper portion of the ureter. The most common cause is nephroptosis, and a less frequent cause, renal rotation. If the upper part of the ureter becomes fixed by periureteral adhesions, a moderate renal excursion may produce obstruction. Congenital anomalies causing obstruction are often bilateral but vary in degree so that the hydronephrosis may appear much earlier on one side.
- 6 Neuromuscular dysfunction due to imbalance of the autonomic nerve supply of the kidney and

The author emphasizes the importance of nephrostomy to sidetrack the urine from the site of operation. Next in importance is splinting of the ureter by the introduction of a ureteral catheter from the nephrostomy wound. To prevent angulation the Lidney should be suspended. Renal sympathectomy may be done.

The ureteral splint should be removed after from four to six days. The nephrostomy tube may be removed as early as the third week. The patient should be kept in the Trendelenburg position for at least

two weeks

The late postoperative treatment should consist of dilatations of the ureter

I SYDNEY RITTER, M D

Caporale, L The Dynamic Hydronephroses and Sympathectomy of the Ureter J Urol, 1935, 33 83

The author reports a study undertaken to determine the part played by the sympathetic nervous system in the development of hydronephrosis. He interfered with the nerve supply of the ureter by the following procedures (1) removal of the nerve abers in the serosa of the ureter, (2) denervation and the application of isophenol to the denervated area, and (3) denervation, phenolization, and the application of a cuff of cellophane around the ureter

He found that denervation was followed first by an increase in the ureteral contractions and then by gradual cessation of these contractions and a decrease in renal secretion. From this study he concludes that segmentary sympathectomy of the ureter will produce, primarily, atony in the tract itself and secondarily, a gradual periureteral atony which culminates in progressive hydro ureternephrosis. He therefore believes his experiments support the dynamic theory of hydronephrosis which until very recently was based on hypotheses.

In conclusion he says that his experiments emphasize the necessity for gentleness in the performance of uretero-ureterostomy and ureteroneostomy and in isolation of the ureter in gynecological operations

I Sanel Ritter, M D

Gibson, T E Nephrectomy Versus Autonephrectomy in Renal Tuberculosis J Urol , 1935, 33

Autonephrectomy is commonly defined as a stricture of the ureter which completely closes the ureteral lumen so that no secretion reaches the bladder. In other words, it is defined as a renal occlusion. This definition is incorrect. The term autonephrectomy" should be applied only to cases of renal tuberculosis with both complete closure of the ureter and complete destruction and transformation of the lidney into a quiescent, shrunken, caseosclerotic mass which renders surgical nephrectomy unnecessary.

Gibson reports two cases of unilateral renal tuberculosis which are examples not only of renal occlusion but also of true autonephrectomy as the destruction of the kidney by the disease process was such that the organ was not dangerous to the patient and its surgical removal was apparently not indicated. One of the patients gave a history of thirty-five years' duration, yet enjoyed excellent health without surgical removal of the kidney. In addition, this patient presented an unusual degree of calcification of the kidney and ureter

Approximately o 5 per cent of tuberculous kidneys undergo complete calcification. With quiescent

total calcification coincident with a normal condution of the bladder the progneds appears to be roundly good whether the patient is treated medically or surplically. This condition is an automphrectomy in the true sense of the word because surplical pephrec

tomy is apparently not necessary

Read occlusion produces two general types of cues, one in the times and the ther with strophy of the affected organ. Large occlusion interfaces proceptiones resulting from eccoulary infertions are not properly claused as autorophrectomies be cause they are definitely potential source of danger t the patient and require surficial treatment. The dagnosis and treatment depend poor the flashings of complete symbolical flavesligation. If a diagnosis of occluded result tuberculast is made careful judg ment must determine bether surgical treatment is indicated on out. If there is complete gessations of all indicated on to. If there is complete gessations of all

ymptoms with complete destruction and transformation of the lifacty int a structure accordance mass which has removed itself from the sphere of danger to the patient, nephrectomy is not necessary. In the problems of nephrectomy versus automphractionsy the conclusion seems justified that in certain

paractions the conclusion scens justified that in certain cases of unlateral enal tuberculosis conforming t the defaultion of autonopheractony suggested by the author nephrectomy is not necessary or t least the risk of non interference is no greater than the risk of sephrectomy

C That as branta, MD

#### BLADDER, URRTHRA, AND PENIS

Musro, D., and Hahn, J.: Tidal Drainings of the Urinary Bladder: A Preliminary Report of This Vethod of Treatment As Applied to "Coré Sladders," with Description of the Sparatus. Ven Expland J. Mol. 1935, 19

The apparatus for tidal drainings of the orangy bladder which described by the authors iterately fifs the bladder to a predictranical beight and then emplied it by contiliants of oliphonages digrs ity flow. When cracuation is complete the sphon in intercepted. After being pet loss action the system works stomatically. The authors recommend this type of draining for all types of ord bladders. They classify cord bladders as ( ) atomic cord bladders. They classify cord bladders as ( ) atomic cord bladders, and (a) aunithisted refers cord bladders, and (a) aunithisted refers cord bladders.

Pinkler G. E., and Vantise J H. Reenigen Disgnosis and Treatment of Tumors of the Bisolder J Am M Air 1935 on 1009

The nulbors advise the cyntography as an adjunct to cystocopy, it the diagnosis of hidder tumors. I this procedure the bladder is filled with air through calciter p to the poant as which the patient experiences the seasation of full bladder vinerior and posterior receiptengenum and make I need to be seen a seasation of the bladder vinerior and the several bundlerd cases in which the thors have made a cystographic exmination with air has all

embolism or emphysems of the pelvic times occurred.

By means of air cystograms tumors of the thidder ranging in size from 1 to 8 cm, can be demonstrated and their enlargement or reduction recorded photo-

graphically TREOFER P GRALES, M D.

Historimann, H. What Does Leucopialis of the Fools Teach U ? (Was kieres was der Presserkopialum?). Zoutralk! f Gyant 214, P. 272.

Lencoplaids of the penis as observed fort by Perrin Later t as reported by Kraus, Genser Nichen, and others. Up to January 1931 about fifty cases wer studied and recorded

In a new case operated upon by 'veller littleman is estigated the relation of leurophilis of the penis to kencophilis of the terms. He cocluded that, the leurophilis of the portio, lexephilis of the penis is the starting point of ermoore. The period of the period by the fact that often the period of the period by the fact that often peaks reported in the biterature aboved cartiforms and cartinous is found in 19 per creat of the nature.

areas to the female products.

Bloques from an area of leutophitia to establish the dispitude of circumous are to be conferred discus, as staff, function of actions may above our force that the discussion of the function is equal to the function of the f

seen by Hernfeld. If a partiality or enomatous betworphilds is not radically removed by operaton, it will properse in blockst certainty is carcinosed bother it is in the portion on the peen. List certificental of the portion having their origin is lemosphalia, carcinomata of the peals of similar origin requires many years for their de choporest.

Retrograsion of a fully discloped lexcopitate of the pense has not been observed by lincolinana \(^1\) applicable lexcopitation of the portion after retrogram, recurred at the same air several years liter Only the prolapse theoretistic, which are unique to microscopically may damped rether the tenses are not only to the prolapse and the prolapse and the liritation produced by the prolapse and discrepant when the furtilation produced by the prolapse and discrepant when the furtilation is removed.

The matrix area is the peak are also recognised more easily a the best of the ecdpacetop. In the case of the colpacetop, the secretary is a subject to the portion. The cheef differences let ere better to the portion. The cheef differences let ere better that the former causes subject complaints and uncompleted to the control of the collection of the portion and lescondated of the protect that the former causes subject complaints and uncomplete in the calculation of the collection of the collec

(Semman) M raine J beit M

#### GENITAL ORGANS

Achenbach, S The Treatment of Varicocele (Zur Behandlung der Varicocele) Chirurg, 1934, 6 747

The author rejects the theory frequently advanced that resection of the pampiniform plexus is the "normal procedure" in varicocele. The defects of the method are evident not only in the frequent immediate sequelæ (necrosis of the testicle and huge scrotal hæmatomata) but also in late complications (atrophy of the testicle and hydrocele)

On the basis of his own experience Achenbach recommends the less radical scrotal resection supplemented by a Bassini operation when an inguinal hernia is present. In all of his cases so treated the subjective symptoms were relieved almost com-

pletely

Resection of the plexus is associated with a number of dangers. When the surgeon has been too radical the flow of venous blood from the testicle may not be sufficient. As the result of knotting of the venous stumps with one another the resected vens may become patent again. The internal spermatic artery, which is difficult to recognize and isolate, may be ligated accidentally. Moreover, it is usually impossible to avoid resection of the fine nerves leading to the testicle, which frequently results in subsequent atrophy of the organ

In the recent literature the advice is frequently given to try conservative methods (cold baths and douches, the wearing of a suspensory) first, especially in cases with mild subjective symptoms and when there is a marked disproportion between the objective findings and the complaints of the patient (neurasthenics and sexual neurotics)

The author hesitates to recommend injection of the venous plexus with corrosive substances because of the danger of a marked perivascular reaction with injury to artery and nerve branches

(W Pohle) John W Brennan, M D

## Cecil, A B The Extrusion Operation for Tuberculosis of the Epididymis J Urol, 1935, 33 160

In the technique described by the author the scrotum is cleaned and any tuberculous sinuses present are painted with pure carbolic acid. The scrotum is then seized and gentle pressure is made above the testicle An elliptical incision is made through the skin around the sinus and while the pressure above the testicle is maintained with the hand, very light elliptical cuts are made concentrically close around the elliptical skin incision, bands of tissue being divided directly down to the tunica vaginalis When the cuts are kept close to the central portion of skin a thick scrotal wall is maintained, opening of abscesses is avoided as any abscesses can be seen, and the tissues can be cut lightly further out. As the cuts are made, the testicle and epididymis become extruded from the scrotum and all bleeding points can be seen and ligated Ligation of bleeding points is important to insure a dry scrotal bed to which to return the testicle

In this manner the testicle is extruded through the wound rather than delivered as is done when the socalled high incision is made, and trauma is avoided. The scrotum, which has not been in any way contaminated, is immediately wrapped with salt packs, covered with a towel, and kept surgically clean The placing of packs under the testicle completes the preparation for epididymectomy The tunica vaginalis is then opened and the epididymis separated from the testicle The epididymis and testicle are both wrapped in warm salt packs and set aside A clamp is pushed up along the vas until it reaches the external ring A small nick is then made over the tip of this clamp and another clamp is pushed down along the same path. The latter is used to clamp off the vas The vas is cut between two clamps and thoroughly carbolized The clamp and vas are then drawn upward to bring the vas out in the groin At no time is the clamp removed from the vas Ligation of the vas is not attempted

A single stitch is passed through the nick and the suture then lightly tied about the vas. The clamp with the vas still fastened in it is wrapped in gauze and strapped to the abdomen. The scrotum is pulled down over the testicle and closed by interrupted dermal sutures. A dry dressing is applied without collodion. The scrotum is supported with a binder

After seven or eight days the vas comes away at the level of the skin in much the same manner as the umbilical cord shrivels and dies. In cases in which the vas has seemed to keep up its blood supply a ligature has been lightly tied around it at the skin level to cause it to slough

The advantages of this operation over the socalled high incision procedure are summarized as

follows

r Soiling of the scrotal bed is avoided at all times

2 The extrusion of the testicle through the scrotum with the sinus formation attached renders multiple incisions unnecessary

3 Trauma is avoided.

- 4 The entire thickness of the scrotum is preserved
- 5 Bleeding points can be seen and taken up as concentric cuts are made
- 6 Soiling of the wound by the vas is prevented 7 The wound heals by primary intention in a large majority of the cases

C Travers Stepita, M.D.

#### MISCELLANEOUS

Hansen, J Experiences and End-Results in Injuries of the Urinary Passages (Erfahrungen und Ergebmsse bei Verletzungen der Harnwege) Ergebn d Chir, 1934, 27 470

The author reports on 17 cases of bladder injury, 60 cases of kidney injury, and 135 cases of injury of the urethra

Of the cases of bladder injury, 70 per cent were fatal The high mortality was due chiefly to the severity of the injuries, most of which were complicated by fractures of the pelvis and severe hæmor-

rhages occurring int the privic connective times and extending far into the retroperitoneal trame. In such cases the danger of phiermonous urine infiltra tion is ery great. It is therefore un iso to be satisfied with the introduction of a retention catheter even if at first it seems sufficient. The treatment of choice is suprapublic cystotomy. Hamon, believes that in its execution the introduction of a urethral catheter is injurious. After the tear in the bladder has been ell sutured, suprapobic drainage a th a very large rubber tube is sufficient. The treatment of so called intraperitoneal rapture of the bladderin which inperotomy is necessary and, if possible extraperitoncolization of the sits of the tour is done by Hildebrandt a technique is the same. Hamen discusses the literature on the occurrence and signs of rupture of the bladder ha in all of his cases the rupture occurred in association with fractures of the pelvis, the injuries ere not tears but punctures. Traumatic rupture of the bladder is not very common. The cause of death after rupture is bemor-

rhage, sepsis, or unemia, not peritonitis Of the 60 reviewed cases of kidney injury 47 are treated expectantly with mortality of 8 per cent and a cre treated surgically with mortality of so per cent I discussing the causation of rupture of the Luiney Hansen traches some importance t Kuester theory of adduction movements of the lower ribs and direct crushing or bursting of the organ However he ejects Kuester's theory that hydraulic pressure is the cause of the rupture. For diagnosis and determination of the operative indica tion the author advace excretion urngraphy as the nature and duration of the hemorrhage does not nermit definite conclusions as t the severity of the injury. In each 75 per cent of the reviewed cases was stone formation found after the Lidney injury Tranmatic hydronephrous was observed in only per cent. The occurrence of traumatic floating ney mayer occur as the consequence of accidental inoury t the organ Housever all later examinations reveal some degree of pyclonephntla The operativ treatment of choice is nephroctors; which alone seems t give good esult

In the 35 cases of urchiral liplury reviewed the total mortality was 19 per cost, but 14 the hopeless cases are excluded, it was only 12 per cost. The hopeless cases are excluded if was only 18 per cost. The control of the cost of the cost of the cost played, whether they were treated surjectly we expect analy swidences of infection powered after few days. These samped from and phenomens to the

most severe urisary phlegmons and because and resultableable undoubledly to the residual cateter 1 all but about to per cent of the case that the completion of the case that the composition of the completion of the case that ppclosephritic conditions in both kidney, contracted Lidneys, and commons stops formation. The enthor therefore opposes the use of the residual catheter is any form. For the milder cases of mcomplete registers of the mether has abovenite expect public (principles) and later nature of the urelian

thout the introduction of eathers from the perform in the case reviewed the incidence of anatonical beafing was low—under per cent Chineli curs as obtained it oper cent of 45 cases treated expectantly 17 per cent of 4, treated by superpublic section, and 15 per cent of 4 treated by low section. The incidence of beafing obtained by ill methods as programmetry 30 per cent

is as pproximately 30 per cent ([a-esex-) Lto A. ]t star, M.D.

Howard, M. E., and Strasse, M. J. L) supergranulous inguinals. A Report of States Cases in and Around New Hawe. Via Espisal J. Med. 535. 313 Of the sixteen patients. hose cases are reported

by the them, decon were maken In all of the cases there was positive reaction to Fore safger. In all of the females the condition as associated the structure of the rectum The cases or of long standing. To of makes were observed before the portation of the impointal plants had unbertoom of Repeated Intraderum discharging alongs to bed!

The structure of the condition of the con

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

## CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Maxwell, J P Further Studies in Adult Rickets (Osteomalacia) and Fetal Rickets Proc Roy Sec Med., Lond., 1935, 28 205

Maxwell discusses rickets from the standpoint of the obstetrician. He first describes a pelvis severely deformed by osteomalacia which was obtained from Shansi, China, and is now in the muscum of the Royal College of Surgeons. This pelvis is so contracted anteriorly that the acetabula opin almost forward. The height of the pelvis is almost exactly half the width. The anterior part of the outlet is V-shaped instead of the normal wide oval, and the edges are rough and jagged. The width from the outer edge of one ischial tuberosity to the other is a little less than two-fifths of the width from one iliac crest to the other.

The specimen was obtained at autopsy from the body of a woman thirty-nine years of age who died following a casarean operation. The generalized skeletal deformity, especially an overlapping of the ribs on the ilium on one side, rendered delivery very difficult. The lumbar spine was analylosed between

the transverse and spinous processes

Next described is the extremely deformed and asymmetrical pelvis of a woman of forty-three years who died after delivery of a dead fetus at term by cæsarean section. The baby had fetal rickets. The mother gave a history of osteomalacia with pain in the back and legs, diminution of height, and tetany. The ends of all of the long bones and the ribs showed irregularities and imperfections of ossification. The vertebræ showed bulging of the intervertebral disks into the osteoporotic bodies, which is characteristic.

The author reports the case of a woman twentynine years old in whom osteomalacia developed rather rapidly after a normal delivery. The blood calcium was 73 mgm and the blood phosphorus 40 mgm. per 100 c cm. The calcium content of the patient's milk was low 177 mgm. Two months after delivery the pelvis was so deformed that another normal delivery would have been impossible

The author holds that osteomalacia and rickets are very closely related, if not the same disease in different periods of life. It has been stated that in India all babies born of osteomalacic mothers tend to develop rickets and some of them develop tetany. The author cites three Chinese women who had both the bow legs or knock knees of rickets and the deformed pelvis of osteomalacia. While pain in the legs and back is a common symptom of osteomalacia, rickets is never a painful disease.

Sixteen cases of fetal rickets are reported in tabular form. In fourteen, the mother had osteomalacia

The occurrence of fetal rickets should be suspected if the mother's blood calcium is low or if the product of the blood calcium times the blood phosphorus is under 20. Evidence of rickets has been found by microscopic examination of fetal bones when roentingen examination showed no signs of it. The bones in fetal rickets show lower figures for dry weight, weight of ash, calcium content, and phosphorus content. In one case the early diagnosis of fetal rickets was confirmed by defects in the development of the enamel of the teeth when they came through

Calcium-phosphorus metabolism and physiological chemistry in general are discussed

WILLIAM ARTHUR CLARK, M D

Vastine, J. H., and Bacon, E. P. Osteltis Tuberculosa Multiplex Cystica, with a Report of Two Cases Radiology, 1935, 24 22

The type of bone tuberculosis discussed by the authors was probably first described by Kreibish in 1904, but was first called "ostcitis tuberculosa multiplex cystica" by Juengling in 1920 It occurs in the shafts of long bones, including the phalanges Unlike the metaphyseal form of tuberculosis, it forms multiple lesions It probably has its origin in tuberculous lymph nodes in the chest and is dis seminated through the blood stream The result of each lesion is a cyst The cortex is thin and sometimes expanded. As pain is absent and there may be no swelling over the affected bone, the disease is often unrecognized It is probably present in many cases of infantile tuberculosis. There are records of cases in which the cortex broke down, an abscess appeared in the soft tissues, and a sinus was formed through the skin

Fever occurs only when a secondary infection has developed Anæmia, leucopænia, and lymphocytosis constitute the usual blood picture. The normal chemical character of the blood differentiates this tuberculous cyst condition from osteitis fibrosa cystica. The diagnosis is made by roentgen examination. A positive tuberculin and a negative Wasser-

mann reaction are important findings

The authors report two cases The first was that of a male infant seventeen months old who had had lumps on the fingers, wrists, ankles, and feet since he was six months old. The skin over the swellings had ulcerated The child was under normal weight Examination disclosed infected tonsils, moderate rickets, and multiple hard and painless swellings on the feet, hands, forehead, forearms, and ankles The blood count showed anæmia The blood calcium was 7 mgm. per 100 c cm of serum Urinalysis was negative Biopsy on a fragment of the fibula showed typical tubercles in the granulation tissue, areas of necrosis, active bone proliferation near the granula-

tions, and so typical bone marrow. During the six weeks the child was in the bospital his general condition improved. The works later the bony realings on the forebead had disappeared and those on

the hands were smaller

The nulbors second case was that of a boy two years old who had hard, pollules so clining on the back of the lated and at the angle of the jaw and was saffering from tubercubous breachopseumona and outsi media. Examination of the blood she sammla. The blood calculus was 8 ramm per on sammla, The blood calculus was 8 ramm per on tuberculus test was positive Urinalysis was negative. During the four weeks the patient was in the hospital there was no improvement in the bone lasions, but the tuberculus breachopseumonia and lasions, but the tuberculus breachopseumonia and

ocitis madia a ere reflevari. In such cases the roest ecoestam show randaction originating in the marrow and producing spotty appearance. The lealon may spread diffusely or remain circumscribed. In the phalances multiple lealons are the rais. In the diffuse type the cortex and medulia cannot be differentiated. The bone is usually increased in chameter and may show scierosis. The bone strophy which is so characteristic of the common form of joint tuberculosis is not prominent. In the circumscribed type the lesions have a punched-out appearance and the very thin cortex is either expanded destroyed This is said to represent a healing stage. In the uthors first case, an example of the circumscribed type the losion remained stationary for several years. In the right tibis and fibula several stages of costic tuber culods could be found the diffuse type, the sharpl dronmscribed type, the guisscent type, and a rupture through the cortex with sinus formation the second case rocatgen crambation showed areas of decreased density in the law and similar and sharply punched-out areas in the bonce of the hand Flity-or months later these areas had disappeared in the law and had practically desappeared in the hand WILLIAM ARTECA CLARK, M D.

Van der Linden, P.: Perferticules Injections of Norocain in the Management of Spenies and Tranomatic Arthritis (Festivitakers Novocamaspotiongen is Behanding for Vertauchengen und transmittelen Arthritisch). Dade f. erlief Chr. 934-89.

According to Lenche, the afferent nerve fibers and the sensory bodies in the joint tendors are of great importance to joint conditions as, through them, speaks may give use to load or when thefere which inference the muncles, boses, and a novial members of the affected joint by y of the sympathetics. Lenches found that by the pervascular injection of local ancesthete, it was possible temporarily to

local anesthetic, it was possible temporarily to overcose the institution of movement and the pain in the joint except for cases with gone anatomical injuries it the joint surfaces. The brackfield effect lasted much longer than the usual local aniesthous. The freedom from pain lasted for hours and often even for days. When the pain recurred, the lajer tion as repeated. Cure resulted after from four to six injections.

At the Grangs-Blanche Houghts, Lyran, the treatment has been amplying over particled of year as the procedure of choice for all cases of sprais and transmits striking. It is beginn as soon as function or other severe anatomical injury has been related out. After distanction of the lim a per cent solution of nonvenils without adrenating is lapteded in the region of the attrichar ligaments, particularly at the region of the attrichar ligaments, particularly at the

of novocatin without adversatin is injected in the region of the articular illaments, particularly at the region of the articular illaments, particularly at the attention of the solution injected is but seen as amount of the solution injected is but seen as an expected of the solution in regarding the seen and the solution in repeated.

The author reports aumber of cases showing

The anthor reports agmber of class shown the value of this treatment.

(Dron) Laco E Karna M.D.

Paulian, D. Research on the Myopathies (Recherches sur iss myopathes). Prins mill, Far ott. 42 2007

The following five clinical types of myopathy lave been described in the filterature. ( ) pseudo-kaper trophic paralysis, (s) the Layden-Mochias type, (s) the juvanile type or supulcharseral type of Eris, (s) the lactoscopiolomeral type (Lasdoury Déprine) and (s) the Zimmerfile type.

Fourteen cases have been stoded by the maker from the conduction peams before the age of it in arrow, the conduction peam before the age of it fam years. In almost all there are trophic the corder, contractions, and reasoned offsaturbaners A relation of laterston to the onset could not be established definitiety. Only three putients gave a family history of similar conditions and is only too cases did tumms assem to be related to the count.

cases did trained seem to be reacted to use done.

The author describes the changes loand in the brain and cord by Foir and Nicolesce and the reaction of studies of muscle fibers obtained by bloopy from four cases of pseudohypertrophes muscular distrophy. The latter have been reported proviously the author in collaboration with Scribes.

Paulian believes that, in general, the my opathies are due to defects of intra-sterne development and can be applained best on an embryological best

Marse W Pools, M D

Chaumet, G. Painful Conditions of the Reschisecupular Region and Their Treatment With Physical Agents (Les signs expolohectuals of lear trainment per les agents physiques). Press and Par 431.4. 2013.

Channet describes diseased syndrome channels and massily by penaltative paid in the shoother the modernt first that the modern the modernt first that one of the most exacts of the shoother channels and tendersees on pressure over creatin points. In some cases there may be pain redikting down the arm and strophy of muscles other than the deltoid with more marked functional disability of the shoother joan. The yadrone has been given the name "scapulobomeral perarthritis".

Abduction of the arm is not difficult in the beginmas, but becomes more Limited until the arm cannot be raised above the horizontal. The limit ition is due to involvement of the subacromial bursa, the tendon or the supraspinatus, and the head of the breeps

Tenderness is found over the tip of the acromion and in front of the shoulder over the head of the numerus. Roentgen examination is very useful in differentiating this condit on from conditions caus ing cervicobrachial neuralgia and from injuries of the shoulder. It may reveal o teoporotic changes in the scapula or humerus or calcineation in the soft tissues in the subacromial barsa or along the tendons of the supraspinatus or biceps

Of the physical agents used, deep he it obtained by diathermy or infrared irradiation is beneficial, but the author finds room, on irradiation most effective He administers a moderate close two or three times weekly anteroposteriorly and from the lateral post tion. Beneut becomes apparent after from a week to a month and complete cure is the rule. The cil cium depo its gradually disappear. Chaumet almost always supplements the rount en treatment by intrared irradiation MASH W POOLE M D

Sejhar, J. The Lennis Arm. Its Cause and Freatment (Tenni arm-Ursache, Behandlung) Koll Cnr a Grusek C erir, 1934, 13 154

Thirty per cent of joint injuries due to sports in volve the region of the elbow joint The clinical picture of the so called "tennis arm is characterized by pain in the region of the lateral epicondyle. There fore some orthopodists have attributed the condition to a so called epicondylitis. Others have defined the occurrence of epicondylitis. At first, the pain occurs only during strenuous use of the arm. Later it may gradually become more severe and radiate along the radial side of the forearm to the tingers and into the upper arm. It is then associated with very trouble some weakening of the muscular power of the arm, and eventually it is present even when the arm is at rest.

The objective findings, especially in the chronic forms, frequently show no abnormalities. The mobility of the joint is not limited, and in the majority of cases rountgen examination fails to reveal any change which vill explain the severe pain. Lven in chronic cases a positive roentgen unding is exceptional Possible causes of the condition are

- In injury of the muscular and tendinous soft parts, especially the extensors and supinators of the hand (intramuscular hamorrhages, the deposition of calcium salts, and possibly even new bone forma tion), tears of the muscle insertions (particularly of the brachioradialis muscle and the extensor carpi radialis longior), and injury of the fasciæ and the perimy sium
- 2 A true periostitis of the external epicondyle of the humerus.
- 3 Bursitis The bursa in question is not always present and its bilateral occurrence is especially infrequent It hes under the insertion of the extensor

musculature in the region of the epicondyle and normally measures r by 0 5 cm. In the presence of the influention it varies in size and in its relation ship to the surrounding structures. When the deposition of calcium occurs the roentgen picture may be confused with that of periosities of the epicondyle Carn attributed tennis arm in five men and three women to such a bursitis

4 Neuralagia or neuritis (radial and lateral antebrachial cutaneous nerves)

5 Changes in the joint expaule, especially chronic inflammation, on the volur side of the collateral ridial ligiment

o Subluxation of the head of the radius with possibly pinching of the stretched joint capsule in

the joint space

7 Injuries and strangulations of the annular radial ligament (Mills) According to the statistics of knoll, true severe articular changes were not found in forty five German tennis players who were subjected to repeated examinations. Another investigator was able to find a severe arthritis deformans of the head of the radius in the case of only one tenms player. A circumscribed so called periarthritis humeroradialis is probably very seldom the cause of the pain

Just as varied as the etiological factors of the condition are the methods of treatment. The procedure of choice consists in directing the patient to avoid every activity causing the pain and immobilizing the elbox joint at a right angle for from three to four vecks by a removable rectangular splint applied on the ilevor surface. The particularly painful spots should be well padded According to Carp, bursitis is best treated by causing the bursa to burst by in creased pressure under general anæsthesia. If this is not successful the bursa should be removed by operation

9 As surgical treatment, Hohmann recommends, for chronic cases, separation of the obers of the extensor carpi radialis from their bony insertion on the epicondyle. He claims that this procedure has a favorable effect on the periosteal irritation. However, it may fail and in some cases may even cause the condition to become worse. Other surgeons recommend chiseling off the entire epicondyle (IRSIGLER) HARRY I SALZMANN, MID

kadrnka, S, and Mach R Epicondylian and Bicipital Burse Containing Hygromata of the Rice Bodies A Contribution to the Clinical and Roentgen Study of Chronic Bursitis (Hygromas 1 grains riziformes des bourses (picondyli enne et bicipitale Contribution à l'etude clinique ct radiologique des bursites chroniques) d'orthop , 1935, 22 26

The case reported was that of a man forty-one years old who, at the age of sixteen years, sustained an injury to both elbows with resulting atrophy of the forearms for which he was exempted from mililary service. Five months before his admission to the hospital he had fallen and struck on his left

elbow A large swelling believed to be a bematoma developed around the joint. When the patient was admitted to the hospital the elbow presented large fundors a ciling and was held in position of slight flexion and promation. Extransion and rotation were limited.

The root(genegram showed to affections invasion of the show due to a pathological fracture complicating did tuberenhois and double breaths of the biripital and epococy's far burse. The rice bodies in the hygometic were disharchly table. The romition diagnosis was confirmed by the findings. It autorities.

Bousta of the hidpital and spicosolylar hums is rure. In the case reported it is as evalually brought about by the mechanical conditions in the influed clibor. This case shows that five-body by general are not necessarily tuberculous. Although them was an old the broulous of the elbow histological examination showed no writence—tuberculosis in the burse and the brasilist was redeatly of trumsatic origin. The chargeoist is difficult in such cases, particularly as the difficult signs are manked by issue of the joint (pathological fracture and limition with analytosis). In the case reported the clinical signs suggested tuberculosa in cold aboves. The diagnosis was made only by reenigen examination,

diagnosis was made only by rocatigon examination, fact she ing the importance of such an examination in chronic bounds. The rocatigon pictur of rice body burstia is cystic pera-articular shadow Americ Goss Moneza, M.D.

Flore, M. 1. The Pathogenesis of Painful Promation In Young Children; Catching of the Bicipinal The County of the Uline (Pathografie de la proation designaces des pesas calanta l'accruchage del la tablératis baggatale à la crist pesafneur de la cartilà sons-approadenne de calanta. Res. Senile y 935 41 8

The author reports experiments on the cadaver which show that painful pronation in children is caused by impingement of the hicipital tuberouty on the posterior creat of the lamer algenous cavity of the ulna. He shows the mechanism of the action by diagrams. The normal eval bead of the radius cannot pass back of the crest of the cavity. When the head is circular it slips back and is caught so that normal supination is readered impossible Painful pronation occurs when a child is pulled along by the arm by the mother. A movement of traction and abduction is produced. The child feels pain and the arm remains in pronation. It can be red ced by movement of suprnation followed by fierion. This is accompanied by cracking sound. The sound was beard in the experiments on the cadaver when the rounded bead of the radius was reduced to ta normal position. The author therefore believes that painful pronation is due primarily to a congruital malformation of the bone and is pathogenous is similar t that of certain recurrent luxations of the shoulder or patella Armery Goes Mosman, M D

Almes, A., and Pares, L. Condensation of the Soullunar Bone (Condensation de som beaute) Re-Factor 934, 41 505.

A man twenty-six years of age who had had performed injury to his hand or write sensatured pound of the right index finger which because in fected. About three works later an absent due doped on the back of the right rist, but did not druis. A few day later the entire with vas wollen said puss full and required insunchination. Twe months sittle original infection reconstructions of all the carpai bones strengt the softman infection is a different properties also determine stratistics of all the carpai bones strengt the semillanar bone. The semilurate bone is a densire semilurate bone. The semilurate bone is a densire semilurate bone.

than normal and its contour was indefinite.

The wrist and inger became almost stiff but later the stiffness as reduced by physical therapy. Pain and tenderness persisted for about five months. The last routgement showed the seminuar box.

still very opaque and irregular in online
This case demonstrates defiantely that condensation of the semilurar bone which has all ay bein
attributed to trauma may be of infectious ories.

WILLIAM ARTRUM CLARK, M D.

Jamess, M.; Notés en Scolleele and Round Shoulders; Their Ceuse and I beir Treatment (Oodque notes sor la colone et le dor root leur cause et leur traisceaux). Res Serbey 944, 4 56

As prophylaris against scolosis child should not be allo ed to at up before it is del caught to all. The pillars of the displaring are stateded to the fewer thereide spine in sone and from the with such inspiration there is more and from the left the such inspiration there is more and from the left it was transiency to produce a left thoracolombian curve. At the same time, the left leng, having a greater repansion than the right, probes against the such the results of the such that the such that the such that the right probes against the such that the such

It has been customary to speak of primary and compensatory curves, bet the thor holds that three curves may develop simultaneously before the child begins to sail and therefore before its access says for compensation to preserve body balaxes armse. An latina ofters sais as nuclined position, for example, in the mother' arm, with the periatited and the lumbur spice staking latenal curve. In addition, it may that the neck table starting, thus causing a high theorack and carried curve.

A child may be kept from sitting up by strapping a cross behind the buttocks with the long arm of the cross extending toward the fect

Treatment should be begin as early as possible. It is estimated that in the case of patient sixtees, years of any the difficulties of conrection are fit times as great as in child of its years and afters times as great as in bady of year. Meaning and exercises are unclear cheefy because they are changed for only an hour or so. In the author's pre-tized for only an hour or so. In the author's pre-

cedure the treatment is continuous, day and night. The corrective force is applied to one curve only, and the curve is over corrected. In the cases of older patients, in whom the curve cannot be reversed, the aim is to shorten the curve. During the day the patient wears a rather simple brace anchored to the pelvis by a band. A wide pressure pad pushes against the thoracic curve and a narrow leather band around the neck holds the brace tight against the curve. At night, a corrective plaster bad is used.

Scohosis in adults and very severe scohosis in children, including paralytics, are not treated by this method. They require operative fusion of the

spine

The good results obtained in three cases are shown by illustrations A similar brace may be used for kyphosis William Arther Clark M D

Linde, F Can the Old View of the Constantly Accidental Origin of Rupture of the Interarticular Ligaments of the Knee Be Saved? (Kann die alte Anschauung von der stets unfallsweisen I niste hung des Kniebandscheibenrisses gerettet werden?)

Med Klin, 1934, 2 1556

On the basis of his experiences in the treatment of more than 400 meniscal injuries the author dis cusses entically the theory often advanced recently that many ruptures of the meniscus are spontaneous ruptures due to attrition Because of this theory a relationship of injury is recognized only when there is a history of a severe external force causing hæmorrhage into the joint and disability. The author states that rupture of the meniscus is almost never the result of the direct action of severe external force. As a rule it follows a mild accident such as slipping, a misstep, or stumbling Frequently it occurs in rising from a squatting position or after prolonged kneeling or sitting with the legs crossed or other changes from such positions. With flexion of the knee and turning of the leg outward the meniscus changes its position and thereby becomes engaged more easily in the "pinchers of the tuberosity" In this process reflex and involuntary muscle contractions play an important rôle These statements apply also to rupture of the meniscus in ski riders

In the cases of miners, injuries of the meniscus are usually limited to the interarticular portion because as a rule there is no bodily swing, whereas in injuries due to sports, extension of the rupture to the capsule and associated injury of the crucial ligaments are common because of the swing of the body. This explains why effusion of blood into the knee joint occurs more frequently in injuries due to the sports than in injuries sustained by miners. With few exceptions, miners present the "meniscus bi-partitus"

Microscopic examinations of removed menisci made by Husten showed that in 75 per cent of the cases the microscopic changes varied directly with the length of time that had elapsed between the accident and the operation. On the basis of the

microscopic findings it seemed justifiable to conclude that in all of the cases the changes observed had occurred after the rupture. Apparently they depended upon the severity of the nutritional disturb ance caused by the injury. As the result of disregarding the physiological anabolic and catabolic processes occurring constantly in the interarticular portion of the meniscus as well as in all other living tissue, it has been erroneously concluded that the cetabolic changes found in the interarticular portion of the meniscus are evidences of pathological erosion.

The relation of the microscopic findings to the length of time elapsing between the injury blamed and the operation is shown by the author by a table The majority of the cases without microscopically demonstrable pathological changes or with only slight changes were early cases. In most of the cases with moderate changes the injury had occurred about four months previously, and in those with marked changes it had occurred six months or more previously In the early cases the microscopic changes were found chiefly at the edges of the tear The older the case the more frequently were changes demonstrable within the torn meniscus The theory of spontaneous tearing is refuted also by the fact that rupture of the meniscus is never found in knee conditions of other types in which the meniscus is involved. In the cases of a number of miners who for years had worked in the kneeling position for days at a time no catabolic changes were found in the meniscus removed for rupture Neither were such changes found in the meniscus removed for rupture in numerous cases in which erosion could not have been produced by the patient's occupation In such cases only a mild injury such as slipping came up for consideration

The decision of the Government Insurance Department that, to prove a relationship between rupture of the meniscus and an accident, visible evidences of the accident blamed are necessary, and the refusal of that department to recognize such a relationship in a case in which the condition was attributed to an ordinary movement (rising from a kneeling position), the author beheves is incorrect (Konjetzni) Louis Neuwelt, M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Schwartz, A Results of Tendon Suture in the Hand (Die Erfolge der Sehnennaehte an der Hand) 1934 Basel, Dissertation

The author reviews 390 cases in which tendon suture was done in the Surgical Clinic of the University of Basel in the period from 1922 to 1932, exclusive of cases with major complications such as fractures, luxations, and injuries of large vessels and nerves. Two hundred and seventy-three (60 per cent) of the injuries involved extensors and 117 (30 per cent) involved flevors. Of the injuries of extensors, 104 (614 per cent) were cured completely

and 34 (07 per cent) were cured incompletely. Of the inferies of flexors, 46 (4 per cent) were cared completely and so ( 7 6 per cent) were cured incomletely In 60 cases of entensor injury and 55 of flexor injury the cause of poor results could be ascertained. In 35 (58 3 per cent) of the former and 48 (87 4 per cent) of the latter the failure was the to adhenous in 5 (5 per cent) I the former and 4 (7.4 per cent) of the latter to infection in 7 (7.6 per cent) of the latter to infection in 7 (7.6 per cent) of the latter to later support the processes and is 3 (5 per cent) of the latter to later support the processes and is 3 (5 per cent) of the former and I (I 8 per cent) of the latter to cutting through of the sutures.

Of considerable importance is the location of the injury. The nearer the injury to the and phalenx the poorer the prognosis. This is true also of opening of the joints. The prognosis is best in injuries of the dorsal surface of the hand, apparently because of the mobility of the skin in this part

The age of the patient is also factor as the best results are obtained in the cases of patients between twelve and t enty years of age. In the younger patients the poorer results are due to insufficient immobilization, and in the older patients to contioned regression of the vascular supply. The period of immobilization is indefinite, depending on the patient s ago, whether the ound is infected or not and ther factors. The poorer healing tendency of the flexors may be explained on several grounds. Because of their position, these tendors are exposed greater mechanical irritation, as the result of which, according to Srdenko, the tendon cells produce an intercellular substance and surround themselves ith a capsule, thereby coming t resemble cartilage cells. Consequently in case of injury a premature and laferlor callus is formed. The effects of pressure from the paratenon and endotenonfrom fibrocytic elements of which, according t Gaza, Gerlach, and Gussel, the regeneration ariseshinders the regeneration. Other factors are the ease with which infection streads through tendon shouths and the imposphility of distafecting flexor tendons which are situated deep in the trastics

The article is concluded the braci discussion of thorapy I the author's cears the wound is treated according to the classical principles of freshening and didnfection Chromic catgut is the best material for tendon sature. The use of hystures should be as limited as possible Occasionally gut satures may be dded The tendon sheath should not be satured The author injects beliam of Peru into the cavity of the tendon shouth and treats the surrounding 3,000 solution frivanol When the tissues with alin has been entured a thout tension he injects staphylobacteriophage under it in the direction of the teadon square. H then immobilizes the part is

plaster of Paris dressing I tendon injuries which are more than six hours old the wound is not sutured but is freshened and packed with cod liver or vaschus and the part immobilized in plaster of Paris spiint

(WALTER GROW) JOHN W BREAVER, M.D.

Saunders. J. T : The Etiology and Treatment of Clawfoots Report of the Results in 103 Feet Treated by Anterior Tarnel Resection, Arts. S=1 935, 30 70-

Class foot is described by the author as structural deformity usually developing during adolescence ith no ppercent relation t sex, race, or social status. The typical clawfoot is characterised by exaggregation of the height of the longitudinal arch shortening of the foot, prominence of the metatarral heads, cle ing I the toes, loss of flembelity of the folate, and reduction of the treading surface.

When the condition is mild it is usually first decovered when difficulty is experienced in finding comfortable shoes for the child Tender areas on the dorsum of the foot, easy fatigue, weakness of the ankles, and a kwardness of the suit are freorestly noticed. When the deformity is more marked, rallosities appear, usually under the first and fifth metatarsal heads or as corns on knuckles of hancen toes. These cause great discomfort and, is extreme

cases, ulcoration.

The thor discusses the various theories regard ing the cause of cla foot. By some, the conduces has been believed to be of congenital origin. By Others, it has been attributed to acut. Illownes of childhood, constriction of the feet during growth, muscular imbalanca, paralysis following pobomy sh-Us. disease of the central pervous system, bereday traums, or infection. Sannders states that most of the known causes are lesions of the central nervous 5) stem such as frequently occur after polomy chin and disturb the synergetic control of muscular tone Relief may be given in nearly every case by proper estiment. The author presents an outline of treat treatment ment based on the degree of the deformity

In the shight cases, special shoes and exercises are usually sofficient. It the moderate in of execut, lengthening of the calcaneus tendon, transplantation of the long too extensor tendous t the cuantorm bones and arthrodesis of the interphalangual joint of the first toe are necessary. For marked or severa cases, anterior tarsal resection, frequently supplemented by the measures described, is dvocated The author review the results obtained in or feet by this method. After minimal follow-up period of two years the results were excellent in 8, good in \$1, faur in ar and poor in

Subtalar arthrodous is recommended if a correc tion of more than 40 degrees is necessary or if there is a marked calcaneal position of the heel its lateral instability Reporter S Rence, M.D.

PRACTURES AND DISLOCATIONS

# Meneganz, G and Odlette, D. The Infloence of

Certain Metale on the Fination of the Mineral Components in Cultures of Osteoblests (In fiscace de quelques motaux sur la firation des co poses recorner dans les cultures d'estroblistes) Premie med Par 935-43 5

The phenomena occurring in the healing of fractures include cellular probleration, the formation of an interclular steaduce relative rate or of the intercellular substa ce by certain varietal e upo actis the authors base null fed the results of the " ar experients on the effect of our unit ctals en the arst t a plena nera. It the saud er referred intusarials of the remark to the in ar could etale arthematicalitie micrale i poich inc to es Consultana to total are and of the intent in the chiers asset for meth there effeters meta dul ere na eratur. The tak pertite time cadure his been previous his described it ell's of cheare bries tromi fur to sixteen de sold ere wel makened pla a sith er breet il extract b the beauting web et Miert i ve gitt bateit normal growth the cultives rate by eliconstitution of is calle stuappear threat a seneral re re ma in dumeier were aditel to the eul te each moul four cultures a 1 execution are c mide After two north houth the ciltures are ashed and the reality exercised a consequently on a black background cit's tran - tell shir The A loring to Chart a are dra a

I home of the simple me also as boused in a ten wather a concept them it on, magnetiate I mier or dear on the arough of extendings and or to calaminary to it inhibit matern of the ruler l

COMPUBLICATION

2 No all word aluminame in the recommended as all such allows except or clare to ore less toxic to the hore cells and the one in no time action (furalismin, in thits main in of the mile of

3 Most of the ru der steels have a harmful ac tor or the cellular arouth and mireral treation

4 O-ls three varieties of steel, Val Fatra Noral D, and the Platinostar less D cem to be mert Therefore there three are the only one which heald be used for the internal fixation of a actures

BARRIES B STEE O MD

Houang K. The Role of the Nutrient Arteries of the Long Bones in the Formation of Callus and the Calcincation of the Medullary Cavity le role des art res nour un res des sil nes l'ans la formation du cul et la calcification de la ca its midullare) Presse mil lar 1934 4

In experiments hich the author carried out on rabbits to ascertain the role of the nutrient arteries in callus formation a defect was made in both femora and the nutrient artery vas cut on one side only Roent penographic and histological studies were then made at weekly intervals up to the eleventh week

It was found that callus formation proceeded equally on the two sides but the medullars canal sho ved evidence of greater calcincation on the side on which the nutrient artery was sectioned

The author concludes that the diaphysis of the femur on the side on which the nutrient artery was cut reacted to trauma normally. He states that this artery is essential only to maintain hæmatopoietic function and plays little or no part in callus formation However, the fact that its destruction tends

to constalities for in the nedullist crital, useests that it is a factor in the pre-entire of aberrant BILL LL B SILL (S M D) calculated in

# Non-Union in Fracture of the Shaft of Sever J II the Humerus J 4m M 411, 1315, 101 3 3

from e e tractures o he middle third of the h rigral shat frequently fail to unite at difference me ait ractions problem. The authority ince is a bree from he own printer the his case is . h toreil ntere tas t as m mills reported in 13.5 It sas a concomplete absorpt on of the hen cral sheft felto no a fricture with two sale c quest ciracters. He specific is in the Warren Mi ciract tre Hr and Me head School. Inc. cound case was seen by the author after the mil borest fire a like wool il er sire had tailed to e de ump The patient retuied further e, e attor In the last three cases operation was performed by the sale little is the application of a sliding gratt was tollo ed even noutly late by a ten morratica in a new to darac estecperiorical grafts vere win ed. He jonien' tem ed fattner attempts to cor cet the for un or

In the author's second case there were maltirle fractice. About three notification the triury of sten approximation of the ununted harriral frag il do ar ib actor addillocally proton, di an ob li Latter A can dip and are are notites later with the partir of a beef bore one fill a hear o teope initial graft appeared to realt in unto a after the morths but non-union saspre est a sear later. In the third case the author counterark a the ricitional graft eight months after the injury Non-arion recurred tive mon he later fellowing vicorcus physical the apy

The author di cusaes some of the case es of nonunion. He belie es that in cases, uch as those under discussion the oil operation probable orth viole is that adjocated and of all carried out by Camp bed and Hurderson rariely, the application of a man coronla, gratt tolloved by a wilcouth, long period of fixation to insure union and care the patient beyond the period of absorption at dipolithic fracture of the graft. Ho ever, even this procedure to not intallible HARRIER B STIGHT MD

# Rogers, W. A. The Treatment of Fractures of Vertebral Bodies Uncomplicated by Lesions of the Cord trek Sury 1935, 30 234

The author reports the findings of a stude of the clinical course and early results of recent fractures of vertebral bedies without injury to the cord, the mechanics of the reduction of such fractures by h perextension, and the mechanism of possible injury to the cord during the reduction. This study i as made in thirty one consecutive cases seen in the period between 1923 and 1932. Rogers streams the need for early accurate diagnosis and adequate care ful rountgenographic examination. From a carried study of the anatomical undings of Schmorl and his co workers and from his o in expenence he concludes that the nucleus pulposus acts as the falcrum between vertebre and that the sam of motion he along a line drawn through the point where the greatest resistive pressure of each intervertebral disk falls on its contiguous ertebra. For all practical purposes, this line falls through the nucles pulposi near the deepest point of concavity of the articular surface of the centrum. Extended of the vertebral column therefore exerts decompressing force on the por tions of the vertebra anterior to the line of the nuclei pulpost and pressure along those portions posterior to it. Compression fractures pay be amociated with injury to the nucleus pulposus

Rogers divides his cases into the following four [TOUDS!

r Fractures in which destruction of the disk was slight or absent. Eight (so per cent) of the cases fell into this group. An excellent reduction was obtained in all

Fractures in which the superior or inferior sur faces of the contram and the adjacent intervertebral disk were extensively disorganized. Sixteen (5 per coat) of the cases were of this type. Satisfactory correction was obtained in all.

 Fractures in which the compression was central rather than anterior or lateral Two (6 per cent) of the cases were in this group. Little or no decoranecesion contil be obtained by extension.

A Fractures with deslocation of the advacent vertehra above. Five ( 6 per cent) of the cases were in this group.

If during extension, the dislocation is not reduced and the posterior bony processes do not lock, injury of the cord may occur. The utbor agrees with Days regarding the importance of the anterior longi-tudinal ligament as factor to reduction by extension. H believes that complete hyperextension is easential for the best results. He describes his hyper extension method m detail Complete hyperextension is obtained in short space of time by means of a canvas frame on adjustable supports. A plaster packet is then applied !thout moving the patient The whole procedure requires only about an bour and half. A angesthetic is necessary but an yer age dose of morphine-scopolamin may be administered. The time of correction was at first number of days, but has been gradually shortened t from fifteen to axty min tes

The details of thirty-one reviewed cases are presented in tables it as found that reductions started within seventeen day after the logury were uniformly successful whereas those started later were ofther partially or entirely unsuccessful During the process of reduction all of the patients were carefully atched for cal ness to voluntary muscle action in the lower extremities, loss of reflexes, and twitching suggestive of unpending injury t the cord I only one case as there any such manufestation In t cases acute local pain developed at the fracture at and extension as stopped

For fixation, either planter-of Parm shells or pack ats were used. The latter allowed the patient to be

ambulatory Cases in hich the fractured vertebra lies in the unterior conventy of the spanel cohomo are considered satisfactory for ambulatory treat ment. When the fracture is higher recombent treat ment is necessary. The technique of the application of a facket is described. The period of aration in plaster until reorganization of the bone has occurred, in from two to seven months and is followed by the application of high spring steel back-brace also maintaining hyperextension. The brace is work ustil the muscles have regalated their strength, amally from the fifth t the seventh month. After the brace is discarded deep humber fordools remains and must be corrected by adequate postural exercises

Of the cases reviewed, parro ung of the laterve tebral space occurred in 6 (54 per cent) T eats (65 per cent) of the patients returned t the activities in bick they had been engaged before the intry and remained free from pain Six returned to lighter activities. The details of the cases of the patients who failed to return to ork are presented table. The author believes that mine fusion is not ladicated as routine procedure but is necessary in fractures with dislocation hon adequat correction cannot be obtained. In 42 per cent of the cases be review, complete bridging of boss across the tetervertebral region occurred without operation

In permarking, the author save In cases of recent fractures of vertebral bodies

it is possible to re-establish the mechanics of the back as they were before the injury (96 per cent of the cases reviewed)

s Recent fracture and dislocation are more deficult to reduce (40 per cent of the cases reviewed

3 Part of this correction is usually lost as the result of gradual narrowing of the injured intervertible in the case of the case reviewed).
4 The back is capable of remarkable degree of

adaptababity t this change (65 per cent of the pa-ticats whose cases are reviewed returned t theor pre-injury activities after an average of right and one third months and remained free from symptoms) 5 Re-organization or union of bone occurred in

all of the cases reviewed and in most cases is probably fully dequate after from t t arven months BARRARA B STORESON, M D

Continder, X. J. and Politis, A. M. The Sergical Transtrasect of Recnet Depressed Fracture of the Tibial Articular Seriace (A propos de trait ment characterist des fractures sons articulares re-centes d un plateau tibul par enfoncement). Prese #AF Par 935 43 44

The thors report two cases of depressed fracture of the external condyle of the tibus back ere treated early by open reduction with firstion of the depressed fragment in place by bone edges. In the first the approach was extra articular I the second, it was intra articular and torn external semilunar cartilage was removed. The authors believe that arthrotomy is of distinct advantage as it exposes is junes t the cartilage, frequent compli

cauon, and renders it possible to reduce the fragment accurately The use of wedges is of value when the depressed fragment is too small to be held by a screw Early postoperative motion can be uided by

injecting novocain and acety choline The pathological anatomy, mechanism, and clinical picture of the fractures under consideration are discussed briefly

The Treatment of Malunion of the Ankle (Du traitment des cals vicieux du cou de-pied) Bull et mem Soc d chirurgiens de Par, Masmontell, F

In malunion in the region of the ankle joint the surgeon is trequently presented with a very difficult problem. The author believes that in many cases the condition could have been prevented by more adequate reduction at the time of the injury or more careful and prolonged immobilization with frequent checking of the position of the fragments by roentgenography He states that he prefers immobiliza tion of the foot in a slightly varus position rather than the forced varus position advocated by Destot

or the neutral position of Boehler In discussing the pathological changes and operative treatment of malumion of the ankle he leaves out of consideration fractures of the lower shaft and supra articular fractures, all of which he believes should be treated by cuneiform osteotomy He describes four modifications of the normal joint which can be caused by malunion (1) modification of the dimensions of the mortise of the joint, (2) modification of direction (valgus or varus deformity of the loot), (3) modification of atuation (forward or backward displacement of the foot), and (4) modification of orientation (the internal malleolus in front, the external malleolus carried backward, and the foot deviated outward)

I he author next discusses the operative correction of widening of the mortise, malumon in valgus, equinovarus in cases with fracture of the posterior

In cases of widening of the mortise he replaces tibial lip, and talovarus the abula in its tibial articulation after cleaning out the latter and then fixes the bones in place with

For the correction of malunion, cunciform, oste otomy, astragalectomy, and open reduction with or two screws without osteosynthesis have been proposed. The author believes that unquestionably the ideal operation is that which replaces the bony elements in their normal position, though this is very difficult in the late cases. He therefore advises open reduction not later than two years after the injury. He states that it is particularly important to clean out the new bone formation to allow the fragments to go back into place If the bone is sufficiently solid, one or two screws may be inserted to maintain the position obtained In cases complicated by a tibioastragalar ankylosis a complementary astragalec-

Cases of the equinovarus deformity which occurs tomy should be done with fracture of the posterior tibial lip should be treated in the same way as the preceding group, but always with complementary astragalectomy

Simple varus deformity is simply corrected by cunciform osteotomy

For cases of talovarus deformity a complementary astragalectomy with correction of the position is advised In the author's opinion the ideal operation is a double ostcotomy with open reduction of the fragments followed by complementary astragalectomy in cases complicated by fracture of the postenor up

The article is illustrated with diagrams and roentgenograms

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Basy L., and Beboul, H. A Critical Study of Arteri 47 L., and Reboul, H. A Critical Study of Arteriography (Enode critique arr) arteriography of Arteriography and Arteriography) Bud. Sci. No. 86, 86 (2015) 5.6 (2015).

Bary and Reboul report the case of a man filty loar years old also sought treatment for initial four years old who sought treatment for painful cramps in both arms, especially the right, and an cramps in both arms, especially the mant, and an accuration involving the middle and index fugers of askeration involving the minute and inner ungers the right hand. The radial pulse was easily percept the right mand. The radial pulse was causty perception. The condition was thought to be do to to pict. the. The condition was thought to be on to a pen-lific arteritie. An arteriogram made following the interaction of a strength made notating the fencion of a figuration of the brackial artery in the hidden. fercial into the brachial artery in the Melpital Romer showed the primar enter poorly filed and in some treas entered by the same treas entered to the same treas entered to the same treas entered to the same treas entered by the same treasures of the same treasure entirely obtilerated A accord arteriogram taken ersonds after the first, without an additional egat accoons after the last, without an auditional injection of tenebry), aboved the opaque medium and entirely in the arteries, an innormal phenomeand entirely in the articular an unformal paranomeone After the patient eturn from the rossifence of id. a butter of C strokes bearing users the ofton wither where nebutations (on the state and inside temperature in rea patient of Cyanosia persisted near the cubow assum-tion was entirely lost and movement was impossible in few day, the entire area made have because conin lew (a) the entire arm and hand becausely minimized. There was no infection

parted minimized. There was no injection.
Such a scipled to arteriography as cultrely used
percent. The same day the Same adoption of tenches. pected. The same day the same solution or tenebral been spected into the sorts for the study of had been injected into the aborta for the abory or large ansumant of the abdominal north in another case amount the alleptest ill effect. Horcover, & tark acres of attenderants pare been made in the large series of arteriograms have been made in the authors chind ithous serious ill effects. The arrivors party found attended to have memorial toward was a survey attended to the survey of th have found arteriography with teneury) or rains in the study of arterious types of arterious obliterates as the study of strong to be extent of the issues and the efficiency of the collateral circulation. The and the fractiony of the consisted circulation. The following case is reported was suffering not from inches of the blood easy alls, but from a Assertation of the propositions are said out those training service on the proposition and a service and the service and the service of the proposition and the service of the proposition and the service of the service and vanuation communication. The authors therefore my first that in such disturbances arteriography about be considered for the present contra-trainested.

Leneut, J. The Dangers of Arteriography (Les dangers of Arteriogra ett, J. (See Lenngers et Artertography (Les dia-

Lerent reports the occurrence of serious course thereis reports the occurrence or serious course, solds log the infection of teacher) into the quences note may the injection or toucoust into the brachial artery for attenography in the case of a child (in ) can of see ho had () paral \ oliman caud (an) cars or any no had (typical volument metacture (allowing a fracture of the homeron Thire injections of 6 cm each of 15 cm seeks then of trace); or easy fidelity the Corn seek-ten of trace); or easy fidelity the Corn in "Species the hand become blacked and its hand

and forestm cold. These changes were followed first

and foreign cold. These changes are followed for by women comparison and cynotic of the hand and arm cold finally for paragrams which necessitated amputation with describedation at the shootest. amputation with described sides at the shoulder.

A study of the appeared area disclosed oil circ.

A study of the appeared area disclosed oil circ.

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below the fractine and record obstrating above. below the fracture and recret obtterating knows above it in the region here the lejection of teacher! above it in the region here the twiction of tenency is made and in the collisteral blood 5 cases. These was made and in the consisters; blood caseds. These had caused inchemia and psthological changes in the had caused inchemia and pathological changes in the numerications or small more recent that these characteristic of indinana contracture. There is no the injections of tenetry) had caused from the injections of tenetry) and caused from the injections of tenetry is not contract to the injections of tenetry is not injection. fore the injections of teneory) has cassed, here, vasoconstructor spears in the region of the head Vasoconstrictor spaces in the Icpos of the head second, a thrombosis of the bracket artery and

second, a terromous or the tractical and third, inchemic gaugeme of the cuties are. ziro, nenzime gangrime or toe citate arm. The author mater that such a serious accident had ve. a contract petods to via beautice at a tenty of vocational series are a tenty of view a serious sections; where view a serious sections; where view are view as the view and view are view are view are view a nerty occurred between m his practice as a result of arteriography Arteriography has been used to good attending to your in your action of the pro-trians make and the Arteriography actions of the transfer of the property of the property of the prodivantage by others in Voltmana's contracture the checks and has clearly demonstrated the ithout ill effects and has clearly demonstrated the said the extent of the arterial obstruction. and start the extent of the attental obstruction as the accident in the case he reports he believe in the actions in the case he reports he bear or a about he freely discussed in order to determine the acoust be freely discussed in order to determine the indications for arteriography and the diagram of the procedure Hindfeld, p

indisid, p. The Bland Champter in Chinese Thrombophishitis and Their Distraction fortance (Das Birt sentingson by Armbophistis and the discussion by American State of the Champter of the Chinese American State of the Chinese Thrombophismin and thre current Acts charge Scand \$14, 73 46p. the text resources and the distances and the dis

F on his studies of the blood changes occurring in thrombophiciditie the author draw the following occurring to

The changes occurring in the blood in thrombophically, after operations, and after fractures are patrotus, after operations, and after fractures are on the whole, similar but to thrombopalewith they on the stook, amount but in thrombopascotts they kee characteristic and less marked, especially

are sen connectence and sen majority control the globals and checking the blood changes are no lader of the magnitude. tade of as observiou not of the extent of the theory poss spes area minos recombigared obtargoss rates os are observed not or the extent os the rates. such as heralotomy may be followed by fatal throsbooks and embolism

Actives the meanitude not the sature of the blood changes constitutes an index of complexition below courses constitutes an oper of compositions and it is exercise to be expected that the bleed changes as add to the early accountion of potturing thromposys

4. Our (proruses of many of the processes ages help throughout depend is first hindrane as area thrombous depends is great hindranes to determining whether one or the other change is the composition of the blood is of importance for the origin of thrombosis

# BLOOD, TRANSFUSION

Kosdoba, A. S. The Hæmostatic Properties of the Bone-Blood Mass "Sangos" An Experimental Study (Blutstillende Eigenschaften der Knochenblutmasse "Sangos", Experimentelle Untersuchung) Mill a d Grenzgeb d Med u Chir, 1934, 43 465

While removing bone fragments for transplantation purposes the author observed that the chips mixed with blood possessed hæmostatic properties. To study the hæmostatic action of such chips he carried out a series of experiments in which operations were performed on the vertebral column, skull, and long bones. Bone splinters from the same animal, from another animal of the same species, from an animal of a different species, and even from dead bones were used. In another series, the bone chips were taken from the experimental animal while the blood was from an autogenous, homogenous, or heterogenous source. In further experiments the bone was mixed with blood clots and citrated blood from various sources.

In all of the experiments the bleeding from the bone ceased within from five-tenths of a minute to five minutes after the application of the blood-bone mass, which the author calls "Sangos" Postoperative hæmatomata were not seen. The hæmostatic action of the bone-blood mass is certainly not entirely mechanical, the large quantity of thrombokinase present probably also plays a rôle. The author proposes to study the hæmostatic action of the bone blood mass in operations not performed on bones. (Zwicker) Leo M. Zimmerman, M.D.

Bagdasarov, A The Problem of Blood Transfusion (Das Problem der Bluttransfusion) Verhandl d 22 Kong d Chir d U d S S R, Moscow, 1934, p 115

The Central Institute for Blood Transfusion in Moscow strongly recommends the citrate method. As a method for use in large numbers of cases, direct transfusion has great disadvantages as the location of donors and recipients is difficult to control under war conditions, the complicated apparatus requires assistants, and the use of this method excludes the use of postmortem blood Among 1,700 cases of the most varied diseases and forms of anæmia in which blood transfusion by the citrate

method was done there was none in which an injurious effect was noted. The Institute has developed a very simple apparatus for the transfusion of citrated blood which can be used even under wartime conditions. In the cases reviewed the donors bore the loss of blood very well. The blood picture was fully restored to normal after from thirty to thirty-five days. Preservation of the blood with glucose showed an increase in the lactic-acid content and therefore was discontinued.

The preserving fluid used at the Institute contains sodium chloride, 7 o gm., potassium chloride, 0 2 gm., magnesium sulphate, 0.4 gm, and sodium citrate 5 o gm per liter of water. This solution has the advantage of great stability of its alkaline reaction. The resistance of the erythrocytes decreases only slightly. The leucocytes are destroyed in the first few days. A good therapeutic effect can be obtained even after three weeks of preservation. A slight reaction in occasional cases does not restrict the indications. Transportation of the preserved blood for considerable distances did not cause any serious damage to it.

For distant transportation blood plasma is quite suitable. The questions of plasma transfusion and plasma preservation are being investigated.

The investigations of Samov and the first clinical results of Sakajan placed the transfusion of cadaver blood on a firm basis. Subsequent investigations have established the practical importance of this problem.

Spasokukockij experimented with the infusion of eclamptic blood with good results. The author rejects the idea of rejuvenation by blood transfusion as suggested by Bogdanov in his theory of physiological collectivism and a copulation or conjugation of the cellular elements of the donor with those of the recipient. He maintains that the therapeutic effect of blood transfusion depends on two factors, substitution and stimulation.

The Institute has a number of branches in various states of the Soviet Union which are affiliated with larger surgical divisions. The purpose of these branches is to create propaganda for blood transfusion, to teach it to greater numbers of physicians, and to perform it scientifically in cases in which it is indicated

(Eugen Banner Voigt) Philip Shapiro, M D

# SURGICAL TECHNIOUR

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Hyman, H. T and Touroff, A. S. W Therapautics of the Intravenous Drip Further Observations.

of the Intravenous Drip Further Observation

J. Am. M. Azz. 935; o4 446

The thors review recent series of 1,000 consecutive experiences t the Mount Shaft Hospital, New York City with the slow continuous latus venous infusion ("drip") for the purpose of demonstrating the numerous inductions for the use of this infusion and its effectiveness as a threspectic meainfusion and its effectiveness as a threspectic mea-

ure in surgical and medical cases

The therapeatic Indications included () the treatment of harmorrhage, () the treatment of shock, (3) the treatment of infectious medical assumed in the same of th

As prophylactic and supportive measure in vacious surplical conditions, the drip is usually started below the patient comes t the operating room and is contained during and for vary lag persons of time after the operation. When necessary, transfersion is saidly performed by adding cutrated blood t the solution. In the surgery of diabetes, a bleenl supply found, distriction, and insafile can be readily selfmi-

ntered

The direct introduction of drugs and biologonal repearations in the treatment of postoperat complications in accomplished easily by simply adding them to the sol from Thus, in shock or collapse, ophedenn—epicophin was added it postoperative interns, patreasis in another, that with gird once and the contract of the co

In medical cases the drip was employed in the treatment of anotemia w in replinits, desydration, hemorrhagic discusses, and chemical pounding Special could be administered in dozen of from socioco 1, could be administered in dozen of from socioco 1, and the second of the country of the second produce seculos in the cases of 5 patients this applicit again of new implemental were given in it, days with pool effect.

The drips were maintained for from several hours t t enty four days. Chills or febrile reactions occurred comparatively seldem and in practically every hostance are done to tacheled around it to house Stand Broopliad the interaction method has practically replaced the subcutaneous method to introducing sluids. The former has the advantages of more certain absorption, greater adaptability sed disconnect it the patient; and the possibility of introducing drugs and blood directly into the densities. At the secondary slow rate of or 3 ccm per meants, the drip will introduce from 500 to 4000 cm. of field daily and by sample, single technical procedure the problem of authors and the introductions of final, said, torup, blood, and servas introductions of final, said, torup, blood, and servas

Harthen, II, J. Mandie Intravanous Injections As Experimental Study Arch Serg. 915, 30

The experiments reported are carried est only The amount of fault interest around for my 1 gas cern per kingram of body eight, and the rangs amount infected for the cartin study as 14 cm per kingram of body eight. The versy duration of the impassion was to very for minute. The author a findings and conclusions are saturating as follows:

Large amounts of the solutions similarly on ployed for infusions may be injected intravenously int dops without causing death or eridence of or diac emburrasement. Injections of excessive amounts of final result in cerebral or pulmonary ofecar.

The most favorable chemical charges in the hood occur with infrasson of hotorie salatons of destroys and sodium chlorids. A per cust solution of destroys and sodium chlorids. A per cust solution of sodium chloride languages and per cust solution of sodium chloride in per cust solution of destroys and sodium chloride cause distinctly sufavorable charges. 3 The blood segar value increases following in

fusions of 7 per cent sodium chloride solution and decreases following infusions of hypertosec sodium chloride solution 4. Large infusions of dextross and of sodium

chloride solutions came little if any change in the fragility of the red blood cells.

There is mariled acceleration of the roles rate.

5 There is marked acceleration of the pulse rate during intravenous infusions

6 The intravenous injection of fluids results in an initial rise in the arternal blood pressure. Dance infrances of unclosus forbitions this in followed by secondary full to or shightly below the pre-period level. During infrances of hyperionic solutions the secondary full in dimension of hyperionic solutions the secondary full in dimension of heart.

7 There is marked increase in the venous pressure during large intravenous infusions 8 D gress is most marked following infusions of

5 per cent dextross solution

o (Edema of the subcutaneous tissue does not occur following the rapid intravenous injection of large amounts of fluid. (Edema of the wall of the stomach and of the intestine associated with fluid in the gastro-intestinal tract and the peritoneal cavity occurs following large intravenous infusions.)

to In dogs, the intravenous infusion of a to per

cent dextrose solution is often fatal.

SAMUEL KARN M D

# Davies G k S Pulmonary Embolism Med J lastralia, 1935, 1-171

The possible presence of a pulmonary embolus should always be considered at postmortem examination. Refore the heart or lungs are removed an incision should be made into the right auricle and the main branches of the pulmonary artery. In removal of the lungs or heart there is danger of losing a pulmonary embolus. The embolic blood clot may be found extending from the right auricle into the main stem of the pulmonary artery or blocking the artery at its bifurcation or occluding only one main branch of the artery, either the right or left.

The clot is formed in either a femoral or a saphenous vein, never in the pulmonary artery. Its diameter is smaller than the caliber of the vessel it obstructs. The occlusion is caused by continual folding of the embolus upon itself until the obstruction of the lumen of the vessel is complete. Factors involved in the development of embolism are (1) the rate of the blood flow, (2) the coagulability of the blood, (3) pathological changes in the vessel wall. (4) the patient's age, (5) the condition of the heart. (6) the presence of an abdominal incision, and (7) confinement to bud.

Ischoff has shown that eddies formed in a slowed blood stream start the process of blood clot forma tion. The thrombi are mide up of three parts (r) a thin white laver, which is the first laver formed (2) a thicker mixed layer made up of white and red lavers, and (3) a red laver which forms the main bulk of the thrombus Microscopic examination of the white part of the clot in relation to the vessel shows that it is made up of parallel limelle, which radiate obliquely from the vessel wall. The markings of Lahn are white ridges extending from the white layer of the clot through the mixed liver lamella and the markings of Lahn are made up mainly of blood platelets deposited by a slowed blood tream and built up in parallel lavere. This process continues until the white part of clot occlides the cin. He red part of the elot consisting of red blood cell and abrin is then formed and added to it e The red liver is more compact and thite part urmer than the usual postmortem elot

In the cases reviewed by the nutler the meder explanous verificially was highest in the sixth of cade of the Circles in the assertion to the lase the particular influences in the active we trained for the first and an arrangement of the first active for the manner of a following the following the first and the first active for the cade of t

necessary aid in assisting the return flow of blood from the extremities and abdomen to the heart. In cases in which an incision has been made in the anterior abdominal wall the average age of death from pulmonary embolus is forty six and a half years whereas in cases in which an incision has been made elsewhere it is sixty-four and seven tenths years.

After a surgical operation there is a definite marked rise in the number of blood platelets. This is demonstrable on the sixth day. The maximum is reached on the tenth day. This increase may therefore be an important factor in venous thrombosis.

In the cases studied, the author was unable to demonstrate histological changes in the vessel wall where the thrombus formed. Anomia and cachevia may alter the character of the vascular endothelium, but there is no exact method of estimating their influence. The majority of the author's cases of pulmonary embolism showed no evidence of sepsis or infection. If thrombosts occurs in such cases the thrombi appear to be firmly attached to the vessel wall and are less likely to break off. Phlebitis is therefore rarely found in cases of embolism. Time appears to be of no importance as embolism has occurred in the author's cases on the day of the operation and as lite as the eleventh day after the operation.

Benium G. P. Shiveroff, M.D.

# ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Firor, W. B. The Roentgen Treatment of Carbuncles 111 J. Koentger of 1, 1933, 33-71

The author believes that rountgen irradiation is not used in the treatment of carbuncles nearly as frequently as its value warrants. He briefly reviews the reports on this treatment made by others and gives his own experience with it in fifty six cases during the past three years.

In the majority of his cases a small incision of establish drainage was necessary in addition to the irradiation but not infrequently the lesion opened spontaneously drained treely, and healed normally itter roentgen irradiation alone.

In the usual course of events an increase in the pain and temperature occurs from two to three hours after the treatment. This is followed by marked relief of the pain vithin a few hours and disappearance of the induration. After from twents four to forty eight hours the le ion appears to be sharply localized it drains through a single opening and general subjective improvement is noted. The acute influmnators plue of the tesion usually subjudes entirely in the about two weeks, and the car til succommation is minimal.

In the technique weel by the author from 100 to 250 t units of maderately percenting to 5 are employed orthor yithout aluminary there depending apout the depth of the lesson of its rearres to in rescalance is attained to the teatment of the before say after in bus a careful subject to the a control of the control of the

The mechanism of production of the benencial changes within informationy areas has not been definitely ascertained, but the evidence suggests that lymphocytic destruction is factor in the early defense reaction. Accurs II Narros, MID

#### AR RETHESTA

#### AMASTHEM

Puzzajii, R.; The Behavior of Certain Refices of Periotreal and Articular Origin in Various Types of Surgical Assastiness (Sel cosportaments of alcun infessed de origin periotre sel articulars in van tipi di assatina chrumpon). Spermentale, cit. 18 duj.

Orthopodista are familiars with the fact that during operations on the bones or the large joins aware patients above daagurous destrictured on the grant condition manifested by cardiac swalmers and slow irregular and superficial breathing. The facts of even a deeply annethetical patient superseasuration of the properties of the properties of the process of the pro

Parearli studied the blood pressure and resturation of forty four does and rabbits during operations on the bones and loints (periostiotomy openny of the medullary canal, and opening of various loants) under anesthesis of different types (labelation, rectal, intravenous, infiltration, and nerve blocking) All of the animals except those in which the anesthatie was injected into the nerve trank or the folat cannote showed transitory drop in the blood pressure hatever the samethetic used and even to deep narrows. The blood pressure reached its lowest point, which in some instances amounted to a fall of from 50 to 60 mm. Hg, in a period of 6 or 7 pulsations after the moment of stimulation and returned to normal after from 3 to 20 pulsations. The intensity of the reaction varied according to the angesthetic and the site and nature of the operation, ! according to the number of nerve terminals affected and the strength and duration of the stimulus. It factered in the following order opening of the meduliary canal, facision of the periosteum, arthrot omy on the knee, arthrotomy on the hip, and opera tions involving gra e traumatism to articular sur faces The respiration was all ays less affected than the blood pressure

Inhibition narous, even when pushed to the limit of safety usually produced alighter effects than intrivesous or indiffration anesthesa. The degree of hypotension was invested proportional to the naroutinan property of the drag. Ehyl chlorodarproduced the greatest oscillations of blood pressure, chloroform the smallest, while the effect of other was the control of the control of

The constancy of these phenomena demonstrate that after the other rafterse (cuttaneous sectior and viscoral) have been abolished by an assistated, one-sarticular reflex variations of bind pressure still persist. The depth of assistants has only quantitative fadinents on them. The attendes arises not benefit to the behave content and theme in transmitted through the sgi to the beaut. The sure can be broken to.

 Interference with the efferent path by section of the ward or their functional interruption by genoral atropialisation

a Pharmacological blocking of the afferent nath

by:

a. Amesthetidag the site of origin of the refer.

Injection of novocain beneath the periosteam or into the joint capsule abolishes the refer.

b. Blocking the nerve treats supplying the structure. In the experiments these procedures either prevented the reflex or reduced it to the additions. In the uthor' opinion his findings possibly the lacrosted favor with which lishabition assessments has been regarded in recent journ Is how as splint surgery inhabition assessbenished to the assessment of choice. Deep narroads induced with a drug strung powerfully on the nerve centers is less dispersion in the contraction of the contraction of the companion of the contraction of the structure of a tropics and the injection of an ansestbeting scheme the contraction of the structure of of the

The article has a bibliography
M. E. Mosse, M.D.

North, J. P. The Use and Abuse of Spinel Austrthesia. Ass. Serg. 915, 52 year.

In determining the advantages and distributions of spinal anesthesia in a gi on case the following

four questions must be answered

1 Is full muscular relaxation essential?

s. Does the condition of the patient receive his timeses to be spared the tenic effect of ether ethylese, or chloroform?

3. Are there definite contra-indications to the use of spinal anesthesis?

4 Does the operation justify assumption of the risk associated with the induction of spenil anesthe-

Full muscular relaxation is necessary in cases of early intestinal obstruction in which extensive exploration as required, cause of perforation of vascers, large herms, disphragmatic hernia, and conditions demanding ganginosectiony or other deep operative work, and certain cases of fracture

In advanced bilary disease, diabetes, and acute or firends respiratory disease it is important to prevent a toric effect from the amenthetic agent and guard the respiratory tract against irritation. Pre-crising respiratory tract disease must not be confused with positoperature polinomity complications.

Became of its tendency to lover the blood pressure spinel amesthesia se undescrable in cases it which sudden lowering of blood pressure may be harmful

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROLLIGIENOLOGY

8ch bert, E. von. Three Years Fredminsery Experience is the Treatment of Cancer with Extraonly Hard Resulting the Cortassing designation of Cartanogue and Cartanogue an

After three years expenence with the samma ray apparatus von Schubert reports that it is technically perfect. From the economic point of view he be-Seves that the cost of operation, though high, is bearable. The renewal of the tubes is especially expensive as tube lasts only about three hundred and fifty hours and it costs 7 RM (about \$680 co) The t be given off only from 2 to 4 per minute. Homogeneous irradiation of the privia may be obtained by using t large fields (177 t ad cm) By spreading the treatments over period of three weeks, dosage of a,000 per field may be given. In treatment by massive irradiation, which is given in two days because of the small doses. 1 500 per field may be administered. Beginning endermitis usually heals without reaction in from four to six weeks. When the rountgen irradiation is to be combined with radium breaduation (from 1.000) t 4 000 mgm hrs ) the blood picture should be allowed to return to normal after the first treatment (roentgen or radium irradiation) before the second treatment is besun

In irradiating the every of the white moose with airra-hard rays won Schubert was unable to determins any distinct biological effect. On the other hand, Stubbe observed doubling of the rate of m\_stion of the anaphragon after irradiation of its

pollon with rays produced by from 3 to 75 km. It has yet impossible it form definite opinions at the effectiveness of the ultra hard rays because only very advanced cases have been treated by this form of irradiation, the period of observation has preven, and the cross-from enheld, at his prestar possibilities for sparing the healthy tissues, has not been attempted.

(Westerner) Josep W Bestoner, M.D.

Martin, H. E. The Fractional or Divided Dose Method of External Irradiation in the Treat ment of Cancer of the Pharyus, Toulis, 10, 11, 15 t., and Parament Siguese. Adv reside 015, 15 t.

The ensential principles of the irradiation method colored are reviewed and discussed. The author states that an attempt it exact duplication of Coulard treatment factors and technique is problemed by neither necessary nor advisable sizes identical equipment is sections williable. The universal see of the drivited-losse method of irradiation therapy.

as developed by Coutard has undoubtedly been kindered by attempts at exact deplication of Coutard' technique and disregard of the logical application of the more important general principles.

The author gives detailed description of the techniques and treatment factors used is the Hard and Neck Service of the Memorial Hospital, New Jork City silone 193. With the use of the driekt-dose principle, over 1900 cases of pharyageal and laryageal cancer have been treated with V rs. at 500 ky. V rs.ys at 700 ky. and the 4 gm, radrum-element pack.

The types of cases treated, the various treatment factors, and the techniques of treatment in individual cases are discussed in dotail, and the results in 140 cases treated during the years 03 and 93 are Descented and analyzed.

Misscher G. Experimental Studies on Animals With Regard to the Indisence of Fractioning on the End-Results (Theresperimentals Unterestunger select den Danken der Fraktomerung auf den Spectfelich). Auf andels 235, 6 J.

The problem of fractional receipt irraduction was studied experimentally on rabbuts can ben the action was judged exclusively by the secondary effect (the condition after observation for from one to four years. The criteria of the effect were thresholds for permanent baldness, strophy necross, and hypork-rations.

and hypercurious. Indicate that the increase in the experience in indicate that the increase in these conformation and the fractioning bear relation college. In account of the present general teachery to increase the total dosage still further is fractional reentges treatment, the author concludes that the values referable? secondary effects in azimals above cause for serious apprehensions.

Martin, J. M. and Martin, C. L. Modified "Contard" Rountien Thurspy J. Am. H. Att. 915-104 605.

The thorn trace the progress of high-dispression contingen therety from the sarty dingle massles does through the saturation method of Philder t the more modern functionated plan of Coutard the height of the saturation to the Coutard techniques are the case to make the cost interest that the cost interest have employed less filter viz. 75 mm. of copper instead of sand plan of the with produces only legisly changes aware length. Their method tillies soo kw target show the continuous of 25 mm. of 15 mm.

Thirty six hundred roentgens divided into twelve equal parts covering a period of thirteen days were administered to the tumor and surrounding area. The skin became red and showed marked desqu intation but no ulceration. The tumor disappeared rapidly, leaving only a clean healing ulcer about 34 in. in diameter. The results indicated that the desage was correct.

Is the authors have used this modified technique for only a little more than a year, they are unable to present statistical data. They have employed it in twenty five cases most of which were inoperable. The occurrence of improvement in practically every case seemed to justify the temporary discomfort produced. The tumors included careinomata of the cervix, ovary, breast, rectum, mouth, pharynx liver and larynx and a radioresistant lymphosarcoma of the mediastinum. Tumors of the pharynx responded miraculously. The authors believe that their modified Coutard technique is as efficient as the French procedure.

# MISCELLANEOUS

Turrell W J Eidinow, A., Wilson, J., Woods, R S., and Others Discussion on Short-Wave Diathermy Proc Roy See Med Lond 1935 28 301

TURRELL claims that the thermal action of short wave therapy does not account for the results obtained with this treatment. He suggests that many of the results can be explained better by the disruptive and dispersive action of the impact of the electromagnetic vibrations. These disruptive and dispersive effects will be greatest where the conductivity of the tissues is low, as in bones and fat, and it is in these regions that the therapeutic action of the currents is most obvious. If effects comparable to those obtained in the subcutaneous area were obtained in the deeper tissues and organs, the application of deep wave therapy would be attended by serious risk.

EIDINOW calls attention to the claim that there are marked differences between the biological action of the diathermy current and that of the ultra short high frequency current. He cites the work of various investigators, some of whom maintain that ultra short waves have a specific biological action apart from heat production, whereas others attribute the whole effect of such waves to heat action. He re-

ports investigations of his own in which he found that bacteria remained undamaged by lethal doses of ultra short waves and blood showed no change in fragility, sedimentation rate, or bactericidal power tollowing exposure to ultra short waves in cuto. He concludes that the effect of ultra short waves is a coagulative necrosis and extreme vasodilatation, which is similar to the effect of diathermy high-frequency currents of about 300 meters.

Wilson disagrees with some of Turrell's theories, particularly those relative to the pounding and disruptive action" of short waves. She believes there is no disruption of atoms by a current of disruption of atoms by a current of disruption of every electron in each atom of every capacity branch traversed by the lines of force. She describes various types of machines used in short wave therapy and expresses a preference for those of the valve type. She calls attention to the fundamental differences between long wave diathermy, and short-wave therapy.

Woods states that there appears to be ample experimental and chincal evidence that the effects of short wave therapy are not confined to superficial tissues. It is possible to eliminate most of the effects on these by varying the wave length, although knowledge of the relationship between the depth of the effect and the conditions of exposure is still very incomplete.

WEBSTER discusses especially the clinical application of short wave therapy. Most of his cases were of the librositis lumbago sciaticatype. All responded well after only a few treatments. A small group of painful malignant recurrences seemed to respond more favorably to combined short wave diathermy and roentgen therapy than to roentgen therapy alone.

Russell discusses burns in short wave therapy. He states that the accumulation of moisture from sweat under the electrodes or contact of the cables with the skin may be responsible for burns, but can be easily avoided by precautionary measures. Among the conditions which he has been able to influence favorably by ultra short-wave therapy are boils, abscesses, carbuncles, lymphadenitis, tinnitus aurium, prostatitis, osteomyelitis, septic acne, asthma, osteo-arthritis, gonococcal arthritis, sprains, contusions, pneumonia, and beginning colds

ADOLPH HARTUNG, MID

# MISCELLANEOUS

# CLINICAL ENTITIES—GENERAL PHYSIO-

O Shauthnessy L. and Sioms, D. The Etiology of Traumatic Shock. Brit. J. Surg. 935 959

The a there distinguish it unsuits about from a back translillar from intention boatterion, present periodic, and extract a borne of the stdin. Following review of the superimental insudigations of opinions of others (the report it transatic shockthey report the stockings of their experimental studies. In the latter blick were carried out on root and saturational by the instrumences injection of

of gm of chlorulois per lalogram of body seight in c.m. of water the lalood pressure as recorded by meater of a carcuid cannols and mercury naconsister. Trains was inflicted by so blos with heavy free bar on a thigh. Whate the sits remained intact, the former was broken and stoopy revealed considerable injury to the muscles of the thigh considerable injury to the muscles of the thigh manufacture of the proposed from the approximation of reproduce the condution occurring in fatal chalcal cases of training about the proposed properties.

The experiments were divided into proups. In the first group the attempt we made t determine whether toxine were theretically in the arres of trauma is come of the animals occlause of the venous return as obtained by legation of the femoral vers and inturbutation in the group, the extremal, internal, and common life: webs, and the inferior versa cave and of histainin them made into the high. The inpection of initialing failed to affect the systemic blood presents, whereas traumar pland to the films has field and by

whereas trauma policed to the limb was follo ad by rapid fall in the blood pressure and the development of sever shock with an early fatal terrapation In another group of animals perfusion of the trauma tized limb as done. This failed to elicit any evi dence of the presence in the traumatized tissue of vasodilator substances which might be responsible for reneral vescular collapse or shock. In third group of animals a search was made for diffunble products in the systemic circulation by method based on vividualysis. The results appeared to rule causal relationship to the development of traumatic shock of humoral gency produced either locally in the area of traums or more remotely They engented that the circulating torus may be of such a complex molecula structure that it is incapable of dialysis across collection membrance In fourth group of enimals the pathological part re of bistamin shock and tranmatic shock was studied A distinct difference was noted in the postmortem findings in the animals doing after the administra tion of histamia and those dying from transmatic

shock. After histantia poisoning there as a dealy, offuse congention of the histants. The cut remote of the livre and iddings bied readily and its consum as enganged and presented large weefs like are wisble macroscopically in the fits stresh. The passacrass presented an literace orders, and the splere was generally blue and small. The large or congested with durit blood, and the heart as a filled in the summit object from the translate above the constraints of the

In the second group of the experimental investigations reported the fluid loss in the area of trauma was studied. In series of 8 transacticed extends used as controls the a grave field loss into the trasmathred limb was found to be 16 per cent of the cal culated blood. The thors state that after ery severe traums the fluid loss alone is sufficient to explain the occurrence of shock, but the fact that the amount of find lost lat the transpanced theres does not bear direct relation to the leasth of our vival suggests the participation of some other factor Many investigators have show that occludes of the main vessels of limb prevents the development of tranmatic shock. Complete occlusion of the blood supply t hinh can be obtained only by lighting the abdominal norts, the Mohambar artery the meidle sacral artery the external illac artery the profunda femoris artery and the femoral artery and its branches in the grote. Complete obstruction of the enous return is achieved only by Bration of the inferior ena cave and the velos corresponding to the arteries mentioned. The athors refer to himb with They found such obstruction as an anguale limb that traums to an anomic limb had no marked effect on the blood pressure although the aximals ore under observation for many hours. As the nervous paths in such limb are intact, this observation has been died as evidence that shock is due entirely to fuld loss. However the authors raise the question

hether such tun anemale limb in not us for the amenature. Since, as Bladeck suggested, the studies can be also as the property of the studies of the control of the limb may be attrabuted to the studies lear of fluid, they behave it possible also that the studies restoration of blood supply may release a found of nervous impulses. In support of this theory they cuts the following superment. After prepartion of cut in the usual w y so as to render as right kind limb assume, another cut was prepared and an anastomosis much bet each time the femoral artery and with of the latter i the penpheral ends of the divided artery and vein of the former The anæmic limb was then traumatized as in the other experiments Death occurred about two is there was no evidence of an incihours later dental cause of death, the authors believe it permissible to assume that nerve impulses from the trauma uzed area were responsible for the fatal terminition

In the third group of their investigations the authors studied the area of trauma as a source of nervous impulses. The relation of the nervous sys tem to the syndrome of traumatic shock was investigated by (1) section of the nerves to the limb, (2) section of the spinal cord (3) section and destruction of the spinal cord, and (4) the induction of spinal anasthesia. When an attempt was made to exclude the nervous discharge from the area of trauma, the syndrome was less severe than in the control group In the control group only 1 cat survived for as long as six hours. The average survival period was three hours and twelve minutes Lycry animal showed an appreciable drop in the blood pressure at the end of the first hour after the trauma However, following nerve section, most of them survived so long that it was impracticable to follow them all to death. In the cases of those which were under observation until death the average survival time was five hours and hity four minutes

The authors conclude that a toxamia due to the elaboration of histamin or some other depressor sub stance formed in the traumatized area plays no part in the syndrome of traumatic shock They believe that the chief etiological factors are local fluid loss and the discharge of nociceptive nervous stimuli The latter is of greater importance than the former Attempts to compensate for fluid loss by intravenous therapy are largely ineffective in traumatic shock Apart from the perfunctory administration of mor phine, too little attention has been paid to the nervous aspects of the condition The body possesses ample reserves of fluid Its failure to draw on these reserves is due to the continuance of abnormal nerv ous impulses. The authors suggest that the nocicuptive influences might be controlled by the induction of spinal anæsthesia or the injection of a local anæs thetic into the traumatized area

ALTON OCHSNER, M D

Leriche, R, and Lucinesco, E Heterotopic Osteogenesis Obtained with the Aid of Grafts of Bladder Mucosa in the Muscles or Grafts of Aponeurosis in the Bladder (De l'osteogenese heterotopique obtenue à l'aide de greffes dans les muscles d'un lambeau de muqueuse vésicale ou de greffes d'aponévrose dans la vessie) Presse méd, Par, 1935, 43 137

In an effort to study osteogenesis without the action of periosteum, endosteum, or osteoblasts, the authors repeated the experiments of Neuhoff and

Huggins on seventeen days In two animals a strip of fascia was grafted in the bladder wall after ablation of a fragment of the serosa and muscularis, the mucosa being left intact No ossification occurred in the grafts

In five animals a strip of fascia taken from the outer surface of the thigh was grafted in the bladder wall after a defect measuring 2 by 4 cm in diameter which included the mucosa had been created. In four of the animals ossification of the transplant resulted In the fifth, the graft was lost

In eight animals strips of bladder mucosa were grafted in different muscles, in muscle septa, and in cellular subcutaneous tissue Ossification resulted in seven. In the eighth, suppuration occurred and the

graft was climinated

In two animals grafts of the bladder wall deprived of mucosa were used. No ossification was obtained

In the experiments in which grafts of bladder mucosa were implanted in muscle, studies were made from the first to the one hundred and thirtieth day In the beginning the transplanted mucosal cells multiplied rapidly, the epithelium forming small nodules Soon there appeared in the center of each of the nodules a small cyst filled with a bloody fluid which later became brownish and viscid Around these cysts an active connective tissue reaction took place with the formation of numerous young fibroblasts and blood vessels By the end of from fifteen to twenty days the connective tissue had assumed a collaginous appearance and calcium had begun to appear By about the thirtieth day ossification was quite definite. In several instances the pericystic tissue was transformed into cartilage which later was invaded by bone similar to the process seen in normal cartilaginous ossification Ossification continued until a true bony tube was formed. In the interior of the space limited by bony trabeculæ, first small sinusoidal vessels and later nucleated red cells, megakaryocytes, and other cells typical of normal bone Around this osseous tube there marrow appeared developed a layer of fibrous tissue resembling periosteum in appearance and giving the graft the picture of normal bone

Analysis of the liquid in the cysts showed that in the first few days the calcium content was similar to that in normal blood serum but later, as the fluid became more concentrated, the calcium content increased In the tissues surrounding the cysts the calcium content was found to be from two to three times greater than that in the blood serum

The authors report also two experiments on dogs in which segments of the fibula were removed and transplants of bladder mucosa were made Bonv continuity was established at the end of two and a half months NATHAN A WOMACK, M D

Jung, A and Cemil, S Experiments on Heterotopic Ossification in the Spleen (Quelques expé mences sur l'ossification hétérotopique dans la rate) Presse med , Par , 1935, 43 40

The authors have confirmed the observations of others regarding the heteroplastic formation of bone in the spleen under experimental conditions. They found, for instance, that when the mucous membrane of the unnary bladder is transplanted into the spleen with a strip of aponeurosis, bone is formed after one or two months in the connective tissues moul m in contact with the bladder muces that has praid crated with the formation of cysts. They have found also, as has been noted by others, that the transplantation of either the bladder mucess or the sponeurous's stose int the spicent does not lead to new bose formation. When the peneurous's transplanted with the bladder muces as as first bladder boses formation as also er in ppectrace, irregular and the store the bladder muce as a first bladder boses formation as also er in ppectrace, irregular and the store the bladder muce and appearance in the bladder muce and appearance in the store of the store of

Nicholson, G. W. Studies on Tumor Formation, VV AF tiform Overtan Teratome. Guy Hasp Rep Lond. 934, \$4, 359

The thor presents a detailed description and an attempt at smallying of a museum specimen of lettle form varian terations that was first described by Stateock in our 1 the certifier report the specimes was described as the trush of a semily matrix woman with vulva, permeal riphe, public hair one pper od two symmetrical lower extremities, redmentarly verteinval column, and conclosed as the

rudmentary vertebral column, and erstonale as ity containing a loop of intestine. In the examination reported here the specimen has been treated simply as an unknown object composed of human fiesh. The following is must

the investigator during the study of this tumor. Is fetus, that is, tumor of a human the teratoms organism. In it merely fetiform? Before proceeding with an analysis of the timor tusue in an ittempt t answer these q estions the thor enumerates some f the theories of terstoreness I ttempting to explain the problem as one of parthenogenesis be points out that of the multitudes of oversen and solid teratomata that have been well described, only fifteen resembled the human form closely enough t be called fetiform and of the latter only to con tained bonos that could be regarded reasonably as vertebra: If teratomata represent parthenogenetic ove w would expect to find as general rule some sure traces of membranes and placents, of longtudinal axis, of metamene segmentation, and of orderly delamination of the permittal layers. In the

face of authority see cannot very well believe that an ovarian teratoms represents either a particisegenetic or other (tenspt at embry formation. The assumption of the incestions fertilization of an ovar of the boat by her father at the time or as consequence of her wa conception were better never

What are the claims of the blastoners theory which holds the field today. Cell resis in the form of cressory organs, dislocations, and these malformations are common Invariably they are other fully differentiated or at least, show every sign of every tempt at physiological differentiation possible in their strange location and under trying con-

ditions. The author has pever found persistence of cell rests i the embryonic state Moreover the transplantation experiments of Spenson, performed a th dislocated blastomeres, show that the fate of the blastomeres is determined by the position they happen t occupy in the body \\ hen a blastomere is dislocated late the region of the develorance near pephros it takes its physiological share in the forms tion of that organ and of the wolften duct. The evidence seems to justify the interence that if blance mere is displaced into the region of a development overy it all take part in the formation of the cells of that organ. That is to say it may reasonably be assumed to produce normal ovarian strong, blood essels, oversea follocies, and normal overies or There is nothing to payent that it all tigget the formation of a second individual. Letter of even the most redimentary teratomatous sort. The evidence of modern biology does not support the notion that

displaced blastomere uli produce an ovarian fetiform dermold or teratoms adultions. The uthor behaves that the development of our knowledge regarding the cause I teratomate remales for the fature. U til such development occurs we must rest content with the idea that the gerns or mother-cell will be shown t be sther cell or group of cells ith an antecedent amonaly of composition or location, or ( ) somal tell or group of normal cells reacting absormally in abnormal conditions. In the study herewith reported the author attempted chasty to determine bethe or not teratomata, the genesis and development of hick are nknown represent thempts at the formstion of human organisms. He therefore feels restrict in denying attributes of feters to the object described as he found no internal evidence of letiformity. The object presents no traces of membernes nor of placentation. Most important is the demonstration that the central artial skeleton is not a entehral skeleton since t is built of centers of our

fication in a single unsermented cartilage. The object is distinguished from ordinary der mords and amorphous teratomata chicay by its marked belateral symmetry of outer form and most structure. The author interprets this phenomenon in terms of Seure of combibition know as an "caduloid as the physicionical reaction of find at semi field matter to elementary playeral principles of finid pressure. There is also the action of physical stimule in the form of the appendages, particularly the paired so-called lo er extremities. Beyond the effects of mocking by find pressure, these appeal ages present no characteristics, gross or histological, of somatic lower hinds. The cutaneous falcilorin ndge but eas the roots of the subspicel appendages is a thout homologue in the human body It is to be interpreted as local reaction to physical conditions. Its presence strengthens the view of play sical cause tion of the outer form of the dermond supple and Ha ppendages and much of its inner structure. The valva represents an ornica peculiar to dermosts generally know as the "mouth and is likest

homologue in the human body No pubic region is found, hence there is no evidence for pubic hair and sex, and there is no evidence of sexual maturity of the dermoid nipple. There are no signs of present development, and the tissues are as fully differentiated as those of an adult human being. The name "fetus" is quite inapplicable to the object. The object presents no more internal evidence of a human body than the most amorphous teratoma.

In summarizing, the author states that a "germ" very much simpler than a parthenogenetic ovum or early blastomere satisfies the requirements of formal genesis When basing explanations of causal genesis upon the demonstrations of contemporary experimental embryology we may dispense with a pathological "germ" in the sense of antecedent isolation, displacement, or malformation of a mother-cell or cell group, blastomere, or ovum We owe this dis pensation in the first place to Budde, who refers the pathological factor in teratogeny outside the affected region altogether by assuming a disturbance of continuity of the primitive streat. Budde bases this assumption on Spemann's transplantation experiments with fragments of the dorsal lip of the blastopore which is the organizer for somatic development The results of this disturbance of continuity of the primitive streak will be one or more small isolated, dislocated, or displaced secondary organizers, the effects of which will vary with their own innate organizing capacity, the time of the disturbance, the consequent development already undergone by the ovum, and the region upon which the fragment happens to act However, the effects of its action will never be perfect, that is to say, an embryo, because (1) they are overshadowed and interfered with by the activity of the great organizer of which it is a mere fragment, and (2) the cells upon which the secondary organizer acts were no longer quite indifferent at the beginning of its action Nevertheless, as part of the physiological organizer, the action of the fragment will be in directions as somatic as possible under the circumstances and, with the result, called a "teratoma," will be physiological forms of development and growth.

Finally, the teratoma is conceived of as the physiological reaction of a perfectly normal indifferent cell -more strictis, of the perfectly normal indifferent cells-of the part to ambient conditions, the only abnormality of which is a disturbance of an entirely physiological principle It has been shown quite recently that the action of the organizer is not vital and cellular since many animal tissues which possess no organizing action when alive will unfold it after death Moreover, adult tissues, living or dead, or their heat coagulated cell-free extracts have this action confined strictly to the dorsal lip of the blastopore in the developing ovum It would seem, there fore, that the inductive effect of the organizer is due to some chemical substance elaborated by it We can replace the conception of the material breech of continuity in the young embryo by a disturbance of metabolism in our attempts to find an explanation for the cause of teratomata The author concludes that modern ideas supported by recent experiment do much to shake the foundations of the following two dogmas of pathology (1) that displaced embryonic cell rests or antecedent anomalies of the mothercell or cells will explain tumor formation and the tumor can be explained only as a physiological reaction to abnormal stimuli, and (2) that our discipline is concerned with unnatural, unbiological, or unphysiological principles Herbert F Thurston, M D

# Macklin, M T Heredity in Cancer and Its Value as an Aid in Early Diagnosis Edinburgh M J, 1935, 42 49

Cancer of a specific type in a specific organ at a specific age tends to occur in families and is therefore hereditary. In a series of families selected because two members of each had died of the same type of tumor, it was found that blood relatives were affected ten times as often as unrelated persons

Chronic irritation appears to hasten a reaction which, in its absence, will occur at a later date. In some cases it is not a factor at all

The hereditary character of cancer favors early diagnosis. While a patient cannot be periodically examined for all types of tumor, he may be examined at intervals for the type or types of tumor which have been most common in the other members of his family.

George A. Collett, M. D.

Umezawa, R Melanocyte Reaction of the Preparations of the Pituitary Body and the Urine of a Cancer Patient Jap J Obst & Gynec, 1935, 18

Melanin granules are found in melanocytes present in the skin of amphibia and pisces. Under the influence of certain biological products such as pituitary extract and the effect of drugs or physical impulses, these granules, which normally are arranged in massive groups, become scattered. The skin then assumes a chocolate or brownish black hue, a phenomenon called the "melanocyte reaction". The exact site of production of the melanocyte hormone in the hypophysis is unknown.

The author reports experiments which he carried out chiefly on male rana nigromaculata hall weighing from 20 to 30 gm. Injections were made under the skin in the lumbar region. If the reaction was positive, the dorsal region became dark within a few minutes after the injection. Morphological changes of melanocytes in the web membrane were studied with a capillary microscope.

The melanocyte reaction after the injection of urine of pregnant women was positive in the majority of cases. It could be intensified by boiling the urine for one minute. The urine of women with hyperemesis gravidarum, hydatidiform mole, chorionepithelioma, or eclampsia gave a markedly positive reaction.

The urine of women with gynecological diseases such as endometritis, cervical erosion, and pelvic peritoritis gave a negative reaction. Saline extracts

of uterine myoma or cancer the cerebrospinal finid of women with uterine cancers, and preparations of follocular hormone gave negative results. On the ther hand, positive reactions were obtained with the urine of women suffering from cancer of the

the urino of women suffering from cancer of the uterus and with various commercial preparations of the anterior and posterior lobes of the nitutary

gland

The a thor concludes that cancer carriess excrete the mediancy is hormone with the urine apparently there is an infimate relationship bet een the patistry secretion and that of persons with cancer. In patients with cravical cancer subjected to reentgess the cancer to be a children to the control of the co

If factors hable to cause a positive reaction, e.g. pregnancy, are taken into consideration, the reaction is of value for a rapid diagnosis of cancer it requires only from fitteen to sixty minutes.

IOSTER E. NARAT, M.D.

Bracco, R. New Studies on Latent Pathological Microbiem in Theores Removed from the More Common Operatire Faids (Norre nercies sal pacrobiamo latente patologico ser tassetti prelevati da alegan dei pus cessumi campa operatien). Cles. cler 014. 2.

Bracco reports a bacteriological study he made in the General Surpeal Climic f the Royal University f Turin (Director Uffreduces) t determine how in fertions arise and spread in the abdominal viscers. Of anyesty-seven cases of chronic appendicitis, the meso-appendix was found free from bacteria in thirty (18 o per cent) Of the remaining forty seven cases, the colon bacillus was isolated in twenty three, the staphylococcus py ogenes aureus in seven, the staphylococcus pyogenes albus in six, the enterococcus in seven, streptococcus in one the micrococcus catarrhabs in one, the micrococcus tetrasenes in one and diploments in one Four of the cases with bacteria presented lesions consisting of small ford of small-cell infiltration which were usually perivascular and sight "ascular lessons consisting chiefly of hypertrophy of the intime of the small arteries.

Biraco concludes that, of the forty-server cases at he positive heaterological fondags, forty-three may be considered case of physiological latency as they presented no histological latency, as the inflammatory reason of pathological latency as the inflammatory restoration of the metabolism of the betteriate or the hieration of small quantities of endotonies by death of the organisms.

Of the bacters solated in this study, so 8 per cant belonged to the bacillus coll group. The stapty becomes sureus and the entercoccus each constituted 9 per cent the staphy lococcus about 5 per cent the moreoccus stringmen, the streptococcus, and the micrococcus catarrhalis, each per cent and the diplococcus, I.s per cent.

In three of the four case of relative pathological latency the condition was done to the bendered and in one to the staphylococcus progress surves. We eight cases is which the parameterism as would following hysteractomy for uterms tumor the such maps were negative in four the staphylococcus allows as discovered in three, and the staphylococcus ancreas was discovered in one. One intelooped tumy showed chronic inflammation with hypology in the staphylococcus inhibitation.

Gordon Taylor G Bad Surgical Risks, Brst M J

914. 755-By the term "bad surgical risk" the author means the patient rather than the operation. He states that the "bad surgical risk has been ptly defined by Rooks as a type of patient whose prospect of recovery from active surgical treatment of his condition falls much below the average Surgical risk t the patient depends upon race, sex heredity boddy conformation (fat, color of hair etc.) previous habits and mode of his autecadent or intercurrent disease the state of the cardiovascular resolution trinary, and nervous systems psychological condtions, the nature and seventy of the condition for which surgery is contemplated, the presence or absence of secondary phenomenon affecting the petient adversely and the type of operation proposed Extirpation of the rectum by combined methods is better borne by women than by men. Gestrec tomy is followed by ansemia in females more than the males. Operations, particularly radical breast opera tions, are poorly borne during menetrustico, preg nancy and parturation Of great importance is reducing surgical risk is familial history of losgevity. The risk is lowest during the years that the nationt is in his prime and when operation is done promptly after an early diagraps and under the correct type of anestheda properly induced. Whenever complicated surgical procedure is under con-sideration the adaps. A man is as old as los arteres must be kept in mind. Persons whose stature and form are bnormal are abnormal surgical male. Fat well-known surposal handlesp. In the cases of obese patients operation is technically difficult and fat is usually present not only around but also within the heart. Fat persons appear to be more prone to thromboses and embolism and less resistant infection than thin persons. Confinement to bes for few days before operation may be a most mintary preliminary measure. Persons addicted to excessive use of alcohol, tobacco or drugs are poorer surmed nake then others

Astrondest or intercurrent desease may projected increased septembly by carchovascular desease of the desease of section of the desease of degeneration. Artefoxicrous and extension of vessels combosed with fast in Jewah patient in growth in the colon call for the Mitches type of exsection. Cooperation with a good internsist is of great aid in the pre-operative treatment Low blood pressure is a more serious handicap to surgery than hypertension In diabetes, the risks of surgery have become negligible since insulin and glucose therapy have been employed before operation The cause of death in fatal cases is semility, not hyperglycæmia Renal disease and antecedent infections such as erysipelas, tetanus, and pyogenic infection constitute added risks With regard to psychological factors in the danger of operation the author states that it is wise to refrain from all operations of convenience in the cases of patients who require much persuasion and show evidences of mental unrest

In cases of thyrotoxicosis the risk of surgery has been decreased by the pre operative administration of iodine and repeated determinations of the basal metabolic rate during the pre operative period of rest in bed However, operation is contra-indicated

under the following circumstances

r When the patient has been receiving indis criminate doses of iodine for months or years prior to seeing the surgeon, the basal metabolic rate is above +40, tachycardia is present, and there has been a marked loss of weight

2 When, on being given iodine by the surgeon preparatory to operation, the patient becomes clinically worse and the basal metabolic rate rises

3 When the operation has been delayed too long after the administration of iodine, iodine has lost its effect, and the basal metabolic rate rises

4 When an acute infection such as tonsillitis, is present

When the patient shows mental disturbances 6 When the patient shows an idiosyncrasy to

iodides In spite of the current belief to the contrary, operation is not contra indicated by congestive or anginal heart failure, auricular fibrillation or flutter, hyper-

tension, or extreme youth or old age Increased experience with radium therapy has changed the attitude that existed formerly as regards surgery of the tongue and mouth Whatever views may be held as to the best method of treating cases of neoplasm of the anterior half of the tongue which are good surgical risks, radium therapy is probably better than surgical extirpation and has a lower mortality than more drastic procedures in cases of neo-

plasm of the posterior portion In cases of peptic ulcer, ill advised, ill timed, or inappropriate surgery may convert a good risk into a poor risk. There is no single form of operative procedure which is applicable to every case By surgical judgment or the lack of it the patient's cause may be won or lost In cases which are poor risks the simplest, most gentle, and most rapid procedure is the method of election The position, size, and fixity of the ulcer, the possibility of malignancy, and the findings of functional gastric analysis must be considered A patient with a chronic peptic ulcer may be rendered a poor surgical risk by ill-judged and indiscriminate surgery, but he is already both a poor surgical and a poor medical risk when he has bled

from the ulcer and he becomes a greater risk with each succeeding hamorrhage It is logical to assume that operation is required before a second hæmorrhage takes place and that surgery is the safest procedure The possessor of an anastomotic ulcer is a poor risk. A gastrojejunal or jejunal ulcer may be a severe burden, but an added communication with the colon increases the duration of the operation to cure it and a complicating hamorrhage makes the risk greater than ever All cases of gastric cancers are poor surgical risks

The danger of postoperative thrombosis in cases of splenic anæmia with a high initial blood plate count is perhaps not always sufficiently appreciated When splenectomy is contemplated for this condition the services of a competent hæmatologist are of

great importance

Percentage mortality is dependent upon the risk. Colectomy for carcinoma of the colon is unfavorable because of the operative mortality In cases of carcinoma of the rectum many types of operation are performed, but the most important factor is the judg-

ment of the surgeon

Surgery of the bile ducts is associated with a much greater risk to life than surgery of the gall bladder Operation should be deferred until the jaundice begins to subside Blood transfusion is better than the intravenous administration of calcium chloride as a means of diminishing or preventing the tendency toward hæmorrhage and is especially valuable when the bilirubin curve begins to rise The administration of large quantities of glucose before and after operation is essential. In cases of marked jaundice nothing more than drainage should be attempted

A patient requiring prostatectomy is a poor surgical risk when the blood urea is over 60 mgm per 100 c cm and when, though the blood urea is normal, there is evidence of moderate renal impairment.

ALTON OCHSNER, M D

Rueckert, W The Cause of Death in Fat Embolism Zur Frage der Todesursache bei Fettembohe) Deutsche Ztschr f Chir, 1934, 243 537

A pulmonary and a cerebral fat embolism are recognized In the former there is a mechanical disturbance due to a superabundance of fat in the lungs and death results from suffocation. In the latter there are disturbances of the brain manifested by Cheyne-Stokes respiration due to paralysis of the respiratory centers which, in the beginning, are frequently accompanied by sleepiness, muscle-twitchings, and violent cramps The picture is similar to that of retention uramia Even the maximal contraction of the pupils characteristic of uramua frequently occurs

Cases in which associated renal injuries were demonstrated have been reported (Paul and Windholz, Dusie) The theory was advanced that the uramic symptoms were concealed by the cerebral fat embolism This theory was disputed by Melchior and Groendahl, but supported by the residual nitrogen determinations made by Paul and Windholz in

experiments on animals. Flech and Traum opposed it. Rueckert therefore made determinations of the residual attrogra by the Kjeidahl metro-method in experiments on ten rabbits and three does

caperiodes on ten rabbits and three dogs.

In found that prolooped inter enous injections will follow that prolooped international indigitation and transfers in the following tenter transfersy increase in the mount of lat injected, p. 1 5 ccm. rapidly increased the residual stropes and caused death in three days. It is typical symptoms of urrains and our brill at embolism. Injections of it also the remaind arterion of dogs, caused a transfersy to the remainder of the control of the

paratise produced similar results.

The a thor draw no practical conclusions from
the experiments at this time as determinations of the
residual aitrogen in cases of illnoss are lacking.
However he calls attention to the fact that the
a craps duration of cerebral fat embodism until

death is from eight to eleven days
(FRUM) Maratus J Samear M.D.

#### GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INVECTIONS

Oury P., and Le Bars, L. Chronic Staphylococtic Septicopy entan with Protonged Course (Les septicopy obligant staphylococytysis changes: a évalution protongle: Press mid Par 035, 43

The authors review beiefly the dassifications of staphylococcic infections that hav appeared in the French aterature. They reserve as most satisfactory. the classification of Lemierre, viz ( ) fulminating acute type, which is usually fatal ( ) a subscut type, in which the prognosis is less unfo orable and chronic type characterized by successive and (4) multiple localisations. I their discussion of the chronic type, the subject of this article, they report the cuse of patient who first presented a lesson at the pose and later developed secondary lesions in the langs, bonce, joints, and subcutaneous tissues. This nations was under their observation for six years The I g abscesses ere treated conservati dy while the other leasns were drained sutsically. When last seen, the national as appearently cured Several cases of this t pe collected from the bt rature are discussed breefy

The condition is used common in young adult makes, probable because they are most exposed t traums and also infections. The portal of entry is usually the time of above As rule the finntial lexico heals rapidly and there is free interval before the appearance of the septiology-min. The author emphasics the py grace nature of the organism and the freepency of its occurrent in the felchiated of the dishetile. The proposis depends it great degree point the size of localization of the secondary lesions. A positi e blood citir to it as and in orable tight. Treatment it is manufactory. It consists

chiefly of drainage of the localised infections hen this is possible and measures to increase the patient general resistance. \arm.\ \Nomice, \lambda D

#### DUCTLESS GLANDS

Tahuncill, M.1 Investigations on the Relation Between the Sympathetic Nervon S. streat, the Blood Calcium, and the Parathyreide (Raccale sal rapport fra ampatan, calcenna paratirosa Aria, sale, de Ser 1944, 58, 8).

The author attempted to describe the relations bet cen the sympathetic nervous system, the parathy roads, and the raidium contest of the blood by means of animal experiments and clinical observations. 1 experiments on dogs, simple periarteral impathectomy performed it arrows sites, including the commen carutid, the carotid since and the femoral riery caused no thange in the calcium content of the blood. After the resection of tracts of the mesenteric, omental, and femoral artenes 4 or 5 cm long ith consciousat interruption of the peri ascular ampathetic sheath the calcum contest of the blood decreased, reaching its less est level from one to three day after the operation, and then returned to normal in from four t ten days. After resection of the felt great splanchese nerve immedistriy below the disphraum the calcium contrat of the blood should a decrease buch began t est four hours after the operation and reached its maximuse bet en the third and fifth days and then returned t normal by the eleventh or t elith day

The clinical los sulfgations, though carried on a fer as possible under the same conditions as the experimental uncertifications, yielded less dennis fadings. The sympathetic nervous stem at i juried during various operations at different sites including strussectionsy it imanipulations and keyinound the exacts, execution and amportation of the storach, and resection of portions of arterns. For operations were followed by only sight artistical as the blood calciums, all of the were tales the

limits of normal Baştas and Dophotti ha etained that h per calcaratis occurs in various pathological conditions including hypertension, eteroderma, and datasets as the result of hyperfunction of the parathyroab brought about by preformations of the action of the ympathetic over that of the arms. The authorities of the action of the parathyroab pathological could be applied variations in the blood calcara m.

these conditions.

To ever his experimental show that effects heretofor onsidered solicly those of particly nodes of particly nodes of particly nodes to brought about 1 heart degree by oper the on the sautonomic nervous ystem even 1 chains from the next. The question amens between or by the different heart by the particle of the particle of the temperature of the particle of the condition of the particle of the

Calef, C The Influence of the Prostatic Hormone on the Formation of Bony Callus (L'influenza dell'ormone prostatico sulla formazione del callo osseo) Policlin, Rome, 1934, 41 sez chir 647

In recent years numerous investigations have shown that the various glands of internal secretion are of importance in stimulating repair in certain tissues, especially bone, through their hormones

Although up to the present time the existence of a prostatic hormone in internal secretion has not been demonstrated, it seems to the author that experimental work has indicated the presence of such a hormone. The investigation herewith reported was undertaken to determine whether callus formation is stimulated by a hormone from the prostate.

Following a review of the literature on bone repair and the probability of the existence of a prostatic hormone, the author reports two series of experiments which he performed on guinea pigs and dogs

The first series of his experiments were carried out on sixteen male guinea pigs which were divided into two groups. In the animals of the first group a simple fracture of the middle third of the ulna was produced by the open method. In those of the second group resection of 4 mm of the middle third of the ulna was done. The animals were all of the same age and of about the same weight, and were kept under similar conditions. There was no immobilization. Three days after the operation in each group injections into the site of fracture or resection were started. In the cases of some of the animals extract of prostate furnished by the Serono Serotherapeutic Institute was injected. In the cases of the others, which

served as controls, distilled water was used. The injections were made every four days and the animals kept under observation for fifteen, thirty, forty-five, and sixty days. At the end of the experimental period roentgenograms were made and microscopic sections of the specimen were prepared.

The second series of the author's experiments consisted of twenty-four experiments carried out on eight male dogs at the age of prostatic function Four of the dogs were prostatectomized The hypogastric prostatectomy had been done and the wound had been long healed before the bone lesion was produced A fracture was produced in the fibula. the tibia being left intact, and resection of 6 mm was done in the ulna, the radius being left intact There was no immobilization One group of dogs with a fracture and one group subjected to resection were given no treatment after the bone injury and another group of each were treated with prostatic extract The administration of the prostatic extract, endoprostatina from the Serotherapeutic Institute of Milan, was begun immediately after the bone operations and repeated daily until the end of the experiment. The extract was given in pastilles

The article contains roentgenograms and histological sections made in all of the experiments

The author concludes that there is a prostatic hormone which very definitely influences the formation of callus after bone fracture or injury, and that in the experiments he reports it exerted such an effect whether it was injected at the site of the lesion or given by way of the gastro intestinal tract

BARBARA B STIMSON, M D

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE—THE BOLD FACE FROMES IN BRACKETS AT THE RIGHT OF REPRESENT LOCKATE THE FAIR OF THE LINUE OF WHICH AN AMERICAL OF THE ARTICLE REPRESENT TO MAY BE FORED.

## SURGERY OF THE HEAD AND NECK

#### Head

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# SURCERY OF THE THORAX

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